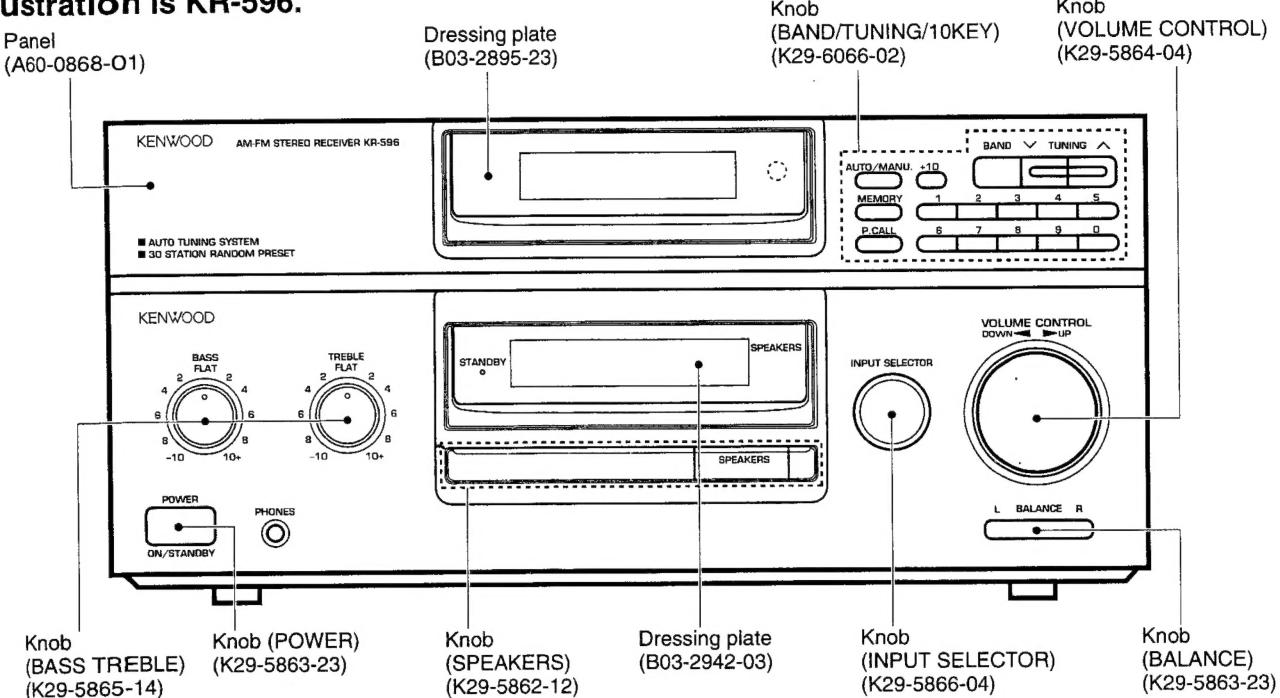


AM-FM STEREO RECEIVER  
**KR-596/796/896**  
 SERVICE MANUAL

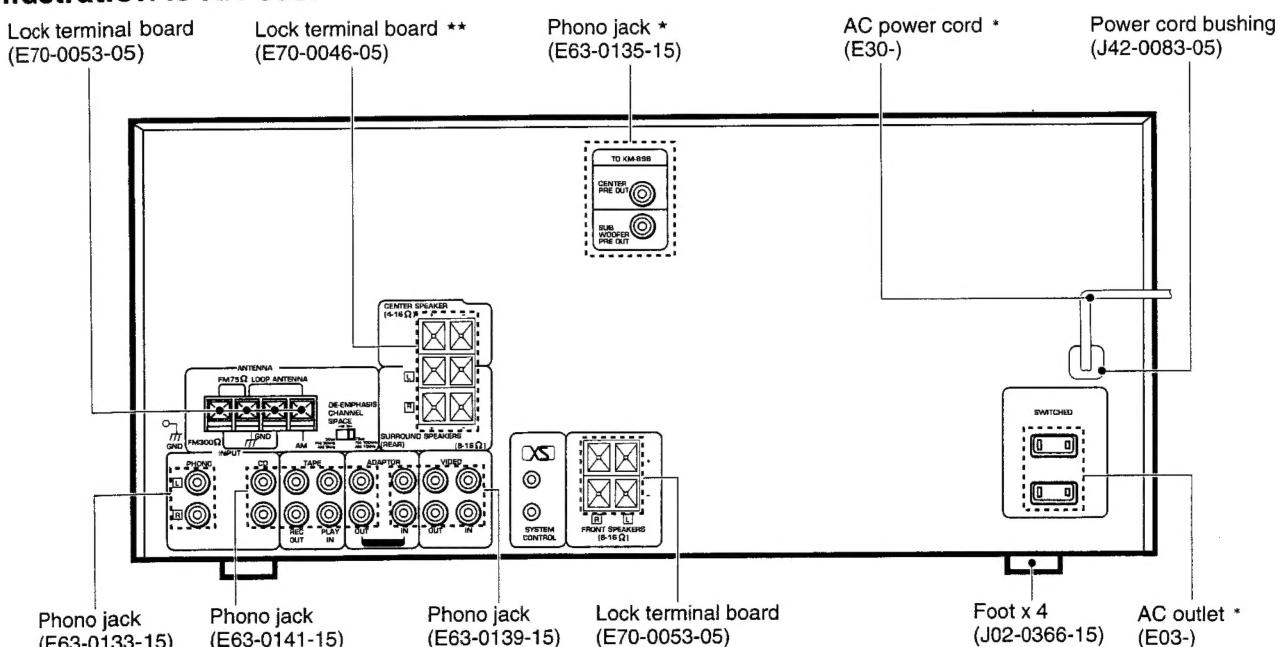
KENWOOD

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 B51-5136-00 (K) 1683

**Illustration is KR-596.**



**Illustration is KR-896.**



\*KR-796 is not available.

\*and \*\* KR-596 is not available.

\* Refer to parts list on page 29.

Refer to KR-594/794 service manual (B51-4844-00), if you want to know more information of CIRCUIT DESCRIPTION.

# KR-596/796/896

## CONTENTS / ACCESSORIES

|                              |    |
|------------------------------|----|
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| ADJUSTMENT .....             | 4  |
| PC BOARD .....               | 5  |
| SCHEMATIC DIAGRAM .....      | 11 |

|                           |            |
|---------------------------|------------|
| EXPLODED VIEW (UNIT)..... | 27         |
| PARTS LIST.....           | 29         |
| SPECIFICATIONS .....      | Back cover |

### Accessories

- AM loop antenna ass'y ..... 1

(T90-0195-05)



(The shape of the loop antenna provided  
may differ depending on the area.)

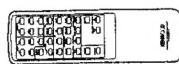
Loop antenna stand  
(J19-3645-05)



Remote control unit ..... 1

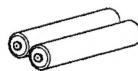
(A70-0975-05 RC-S0501) : KR-596

(A70-0974-05 RC-S0800) : KR-796/896



Battery cover  
(A09-0170-08)

Batteries (R6/AA) ..... 2



FM indoor antenna ..... 1

(T90-0801-05)



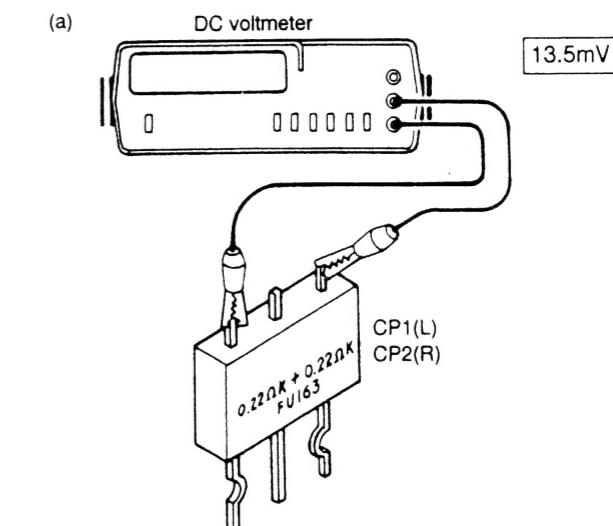
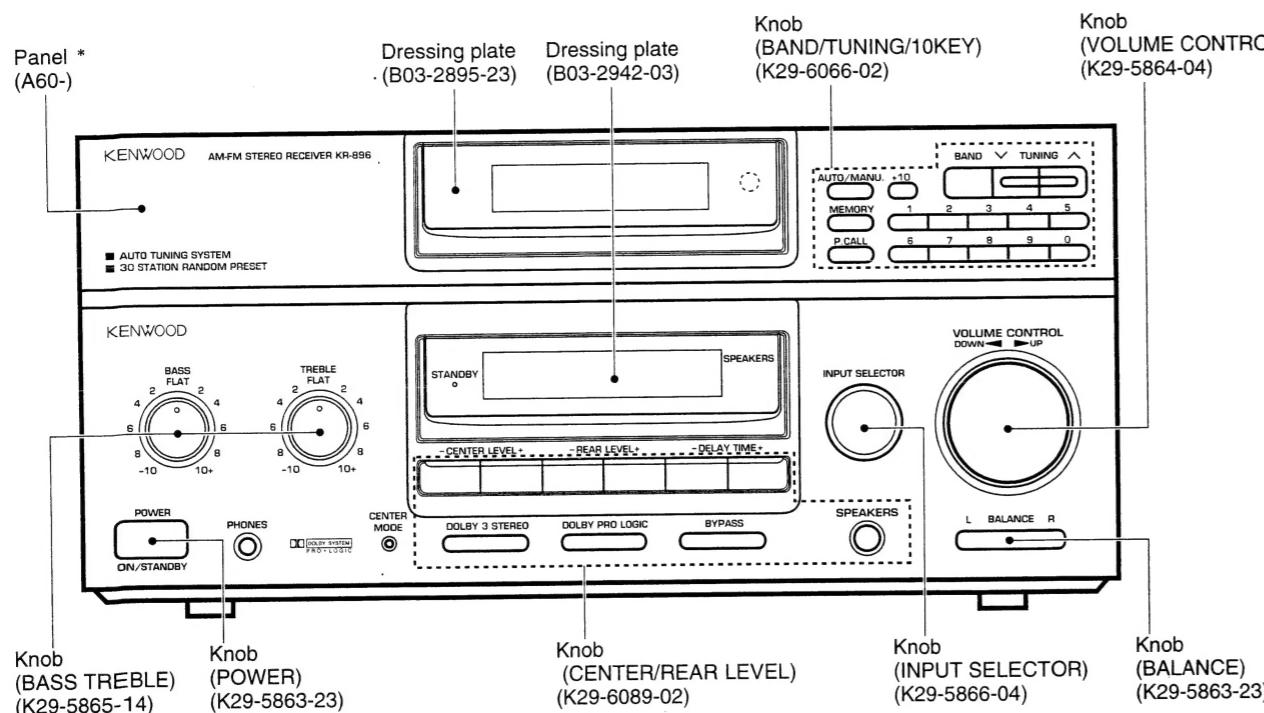
KR-596/796/896

KR-596/796/896

## ADJUSTMENT

| No.   | ITEM         | INPUT SETTINGS | OUTPUT SETTINGS   | AMPLIFIER SETTINGS | ALIGNMENT POINTS             | ALIGN FOR | FIG. |
|---|--------------|----------------|---|--------------------|------------------------------|-----------|------|
| Unless otherwise specified, set the respective switches as follows:<br>POWER : ON      SELECTOR : PHONO |              |                |   |                    |                              |           |      |
| 1   | IDLE CURRENT | -              | Connect a DC voltmeter across<br>CP1(L)<br>CP2(R)<br>(X09-) | Volume:0           | VR1 (L)<br>VR2 (R)<br>(X09-) | 13.5mV    | (a)  |

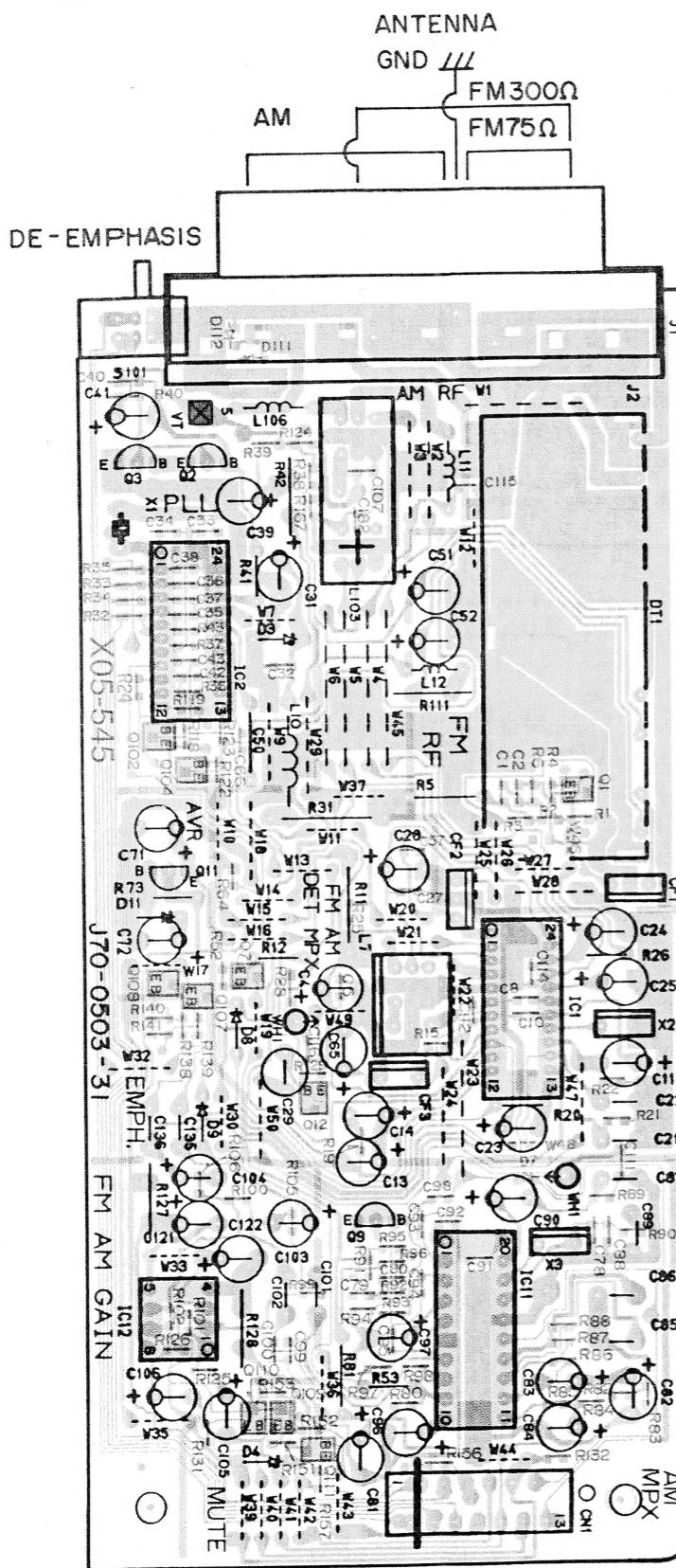
Illustration is KR-796/896.



\* Refer to parts list on page 29.

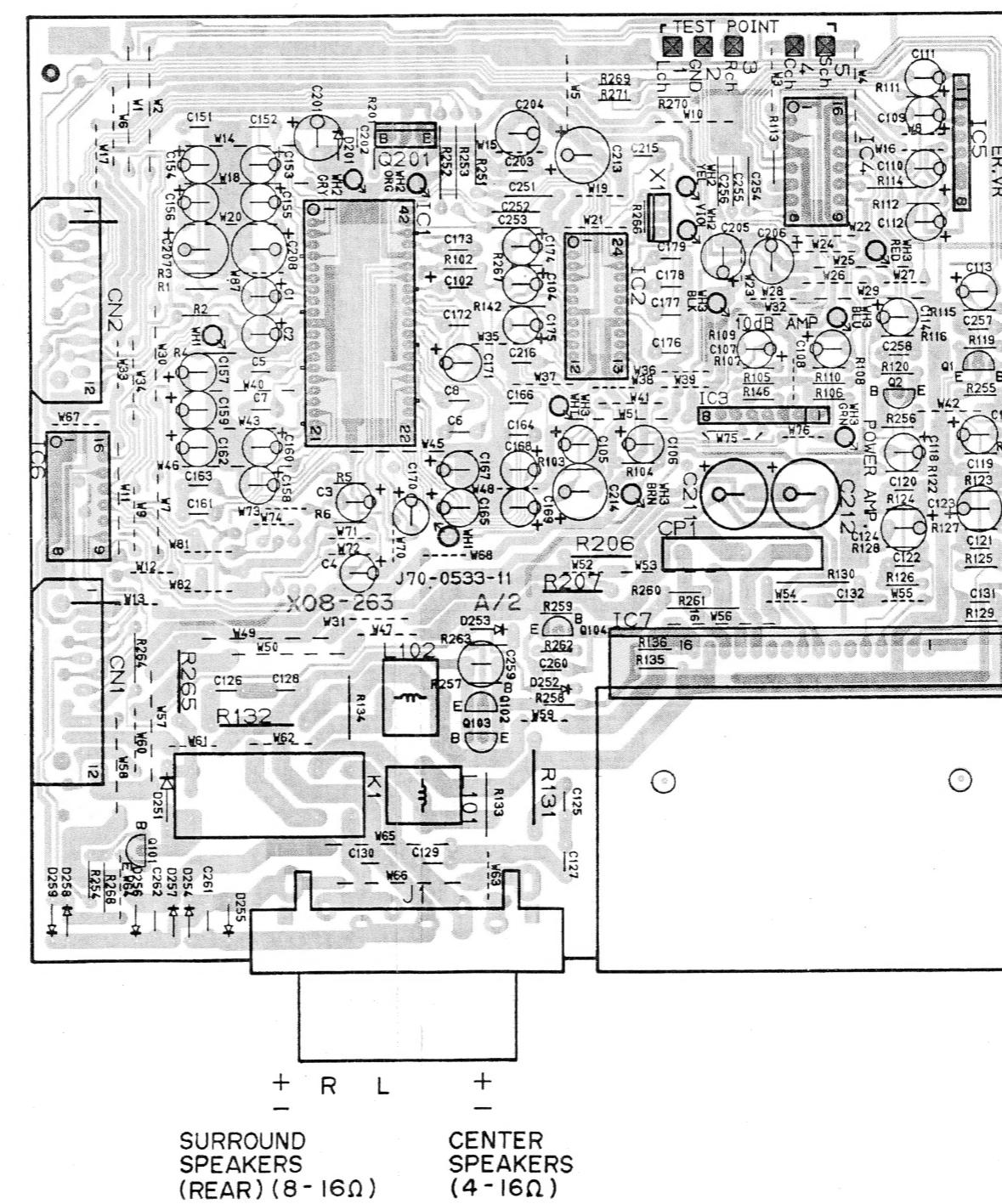
# PC BOARD(Component side view)

TUNER UNIT : X05-4540-XX

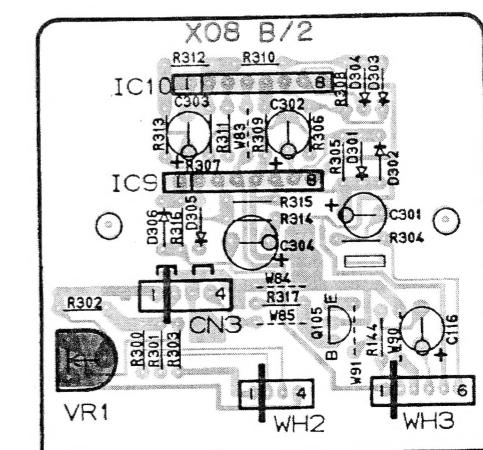
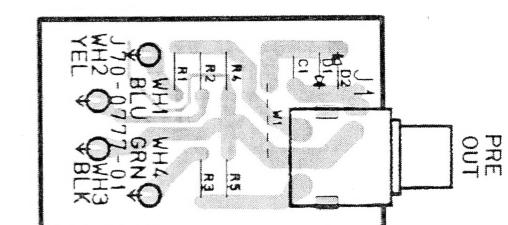


SURROUND UNIT : X08-2630-XX

FRONT

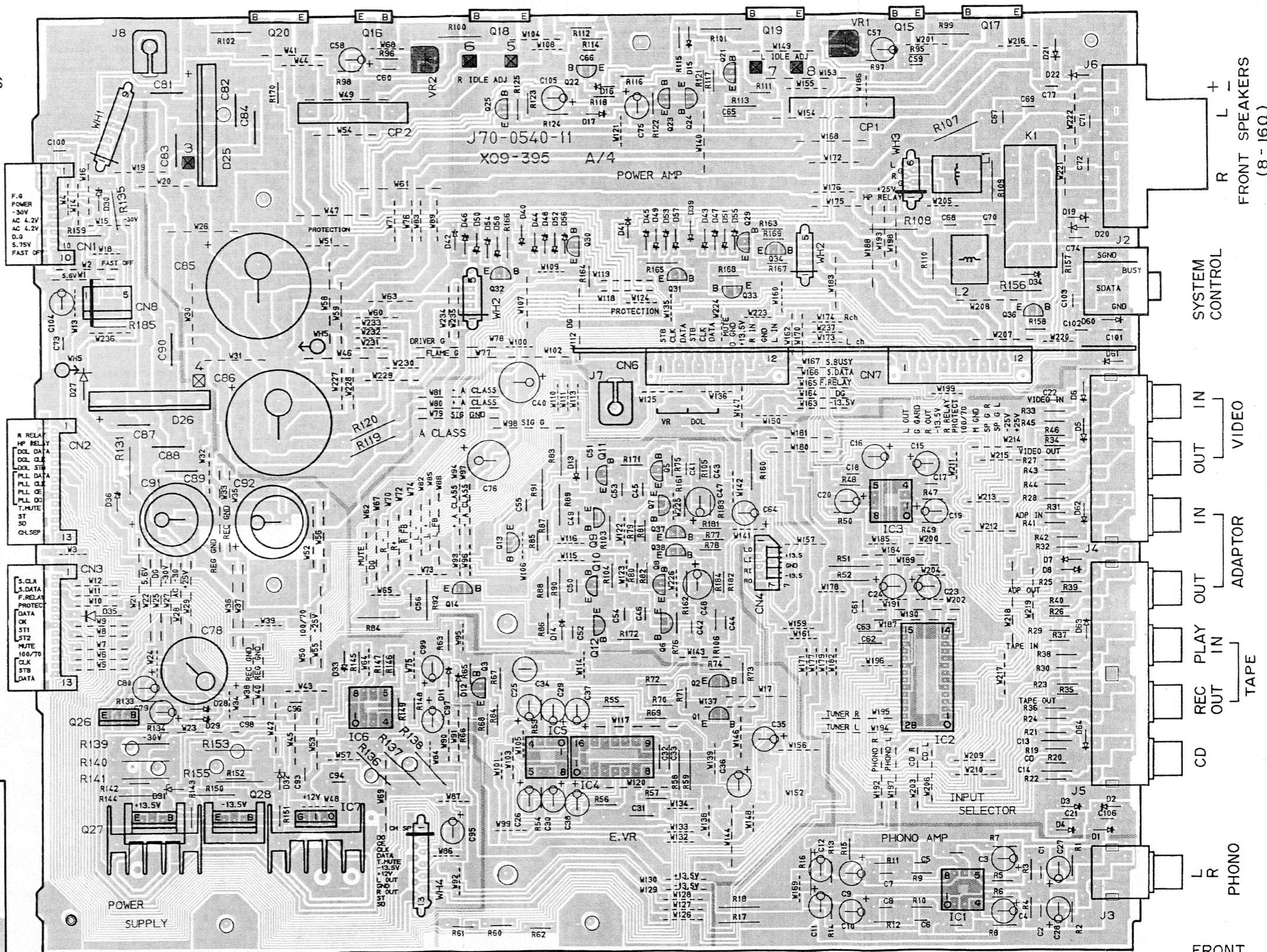
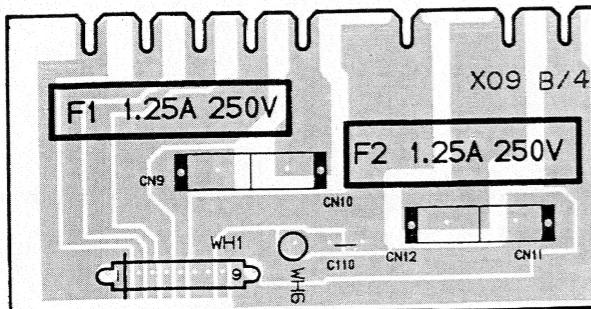
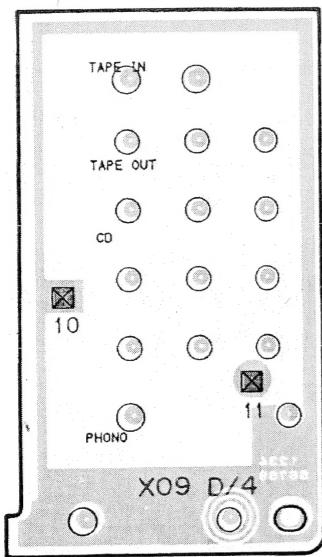
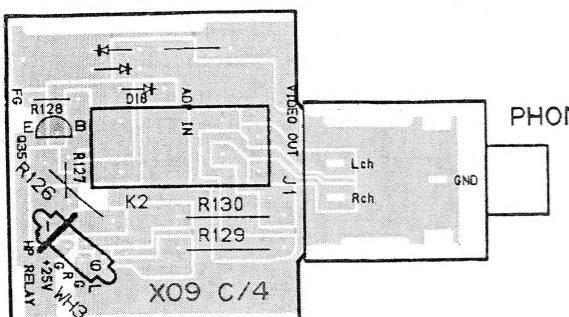


X13-7380-10



## PC BOARD (Component side view)

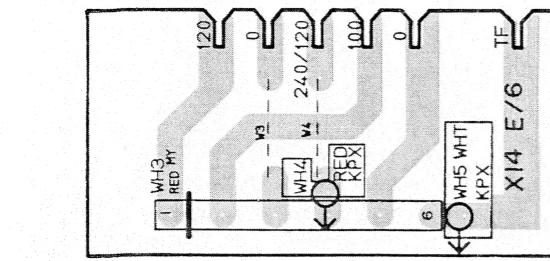
AUDIO UNIT : X09-3950-XX



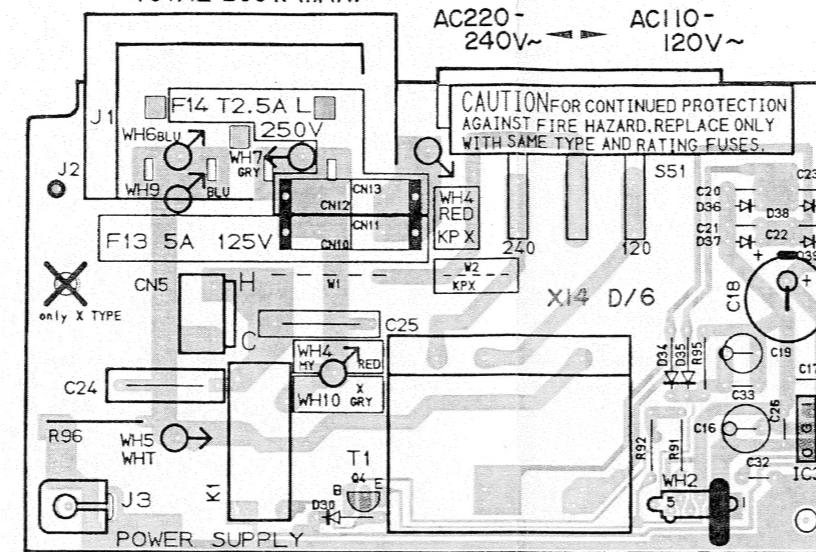
Refer to the schematic diagram for the value of resistors and capacitors

# PC BOARD (Component side view)

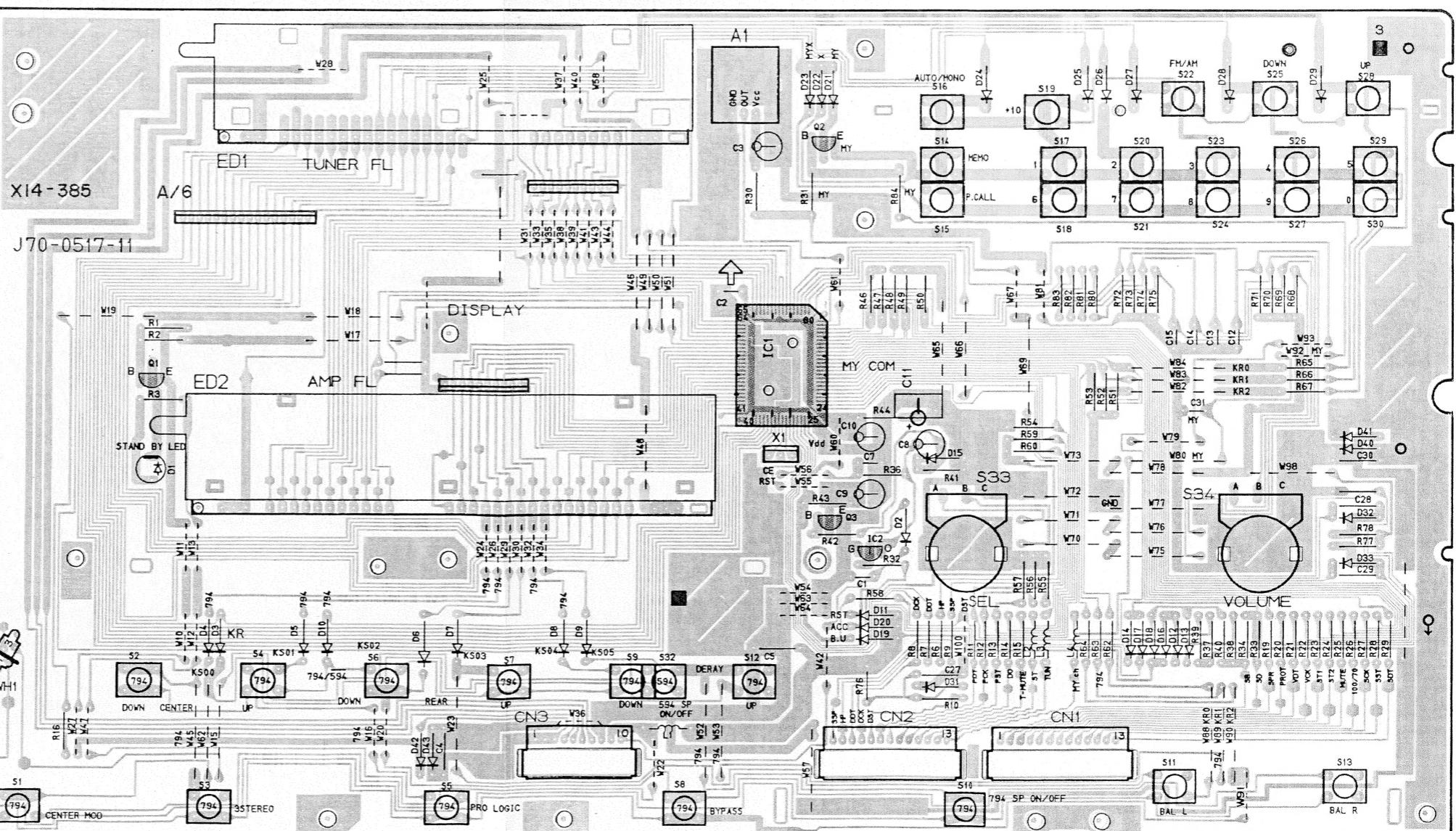
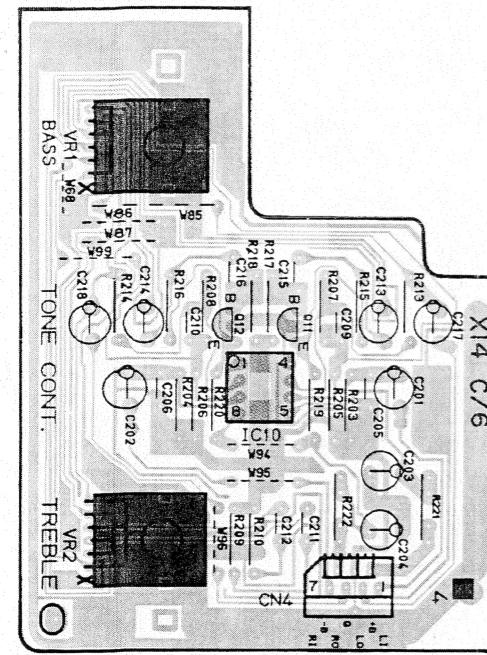
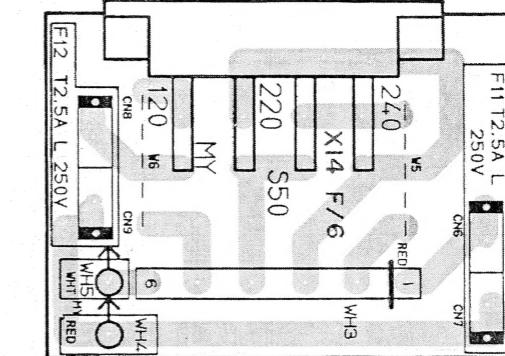
DISPLAY UNIT : X14-3850-XX



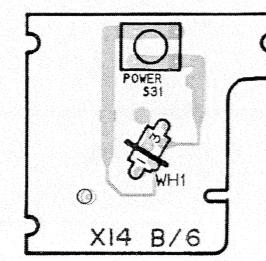
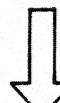
AC110-120V~/220V~/230-240V~  
50/60Hz  
SWITCHED  
TOTAL 200W MAX.



AC220V~  
AC230-240V~  
AC110-120V~



FRONT



A

B

C

D

E

F

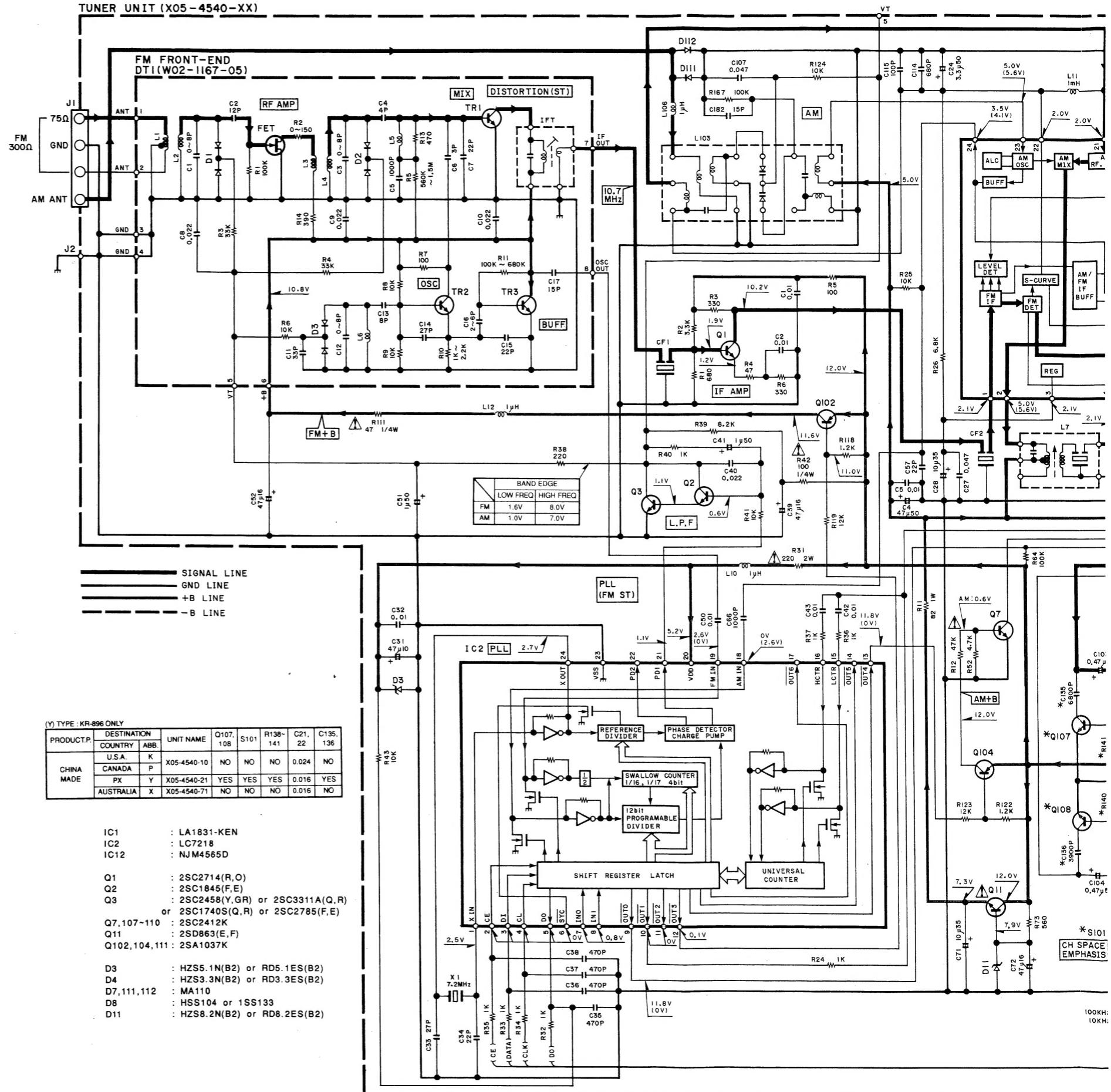
G

H

I

J

## TUNER UNIT (X05-4540-XX)

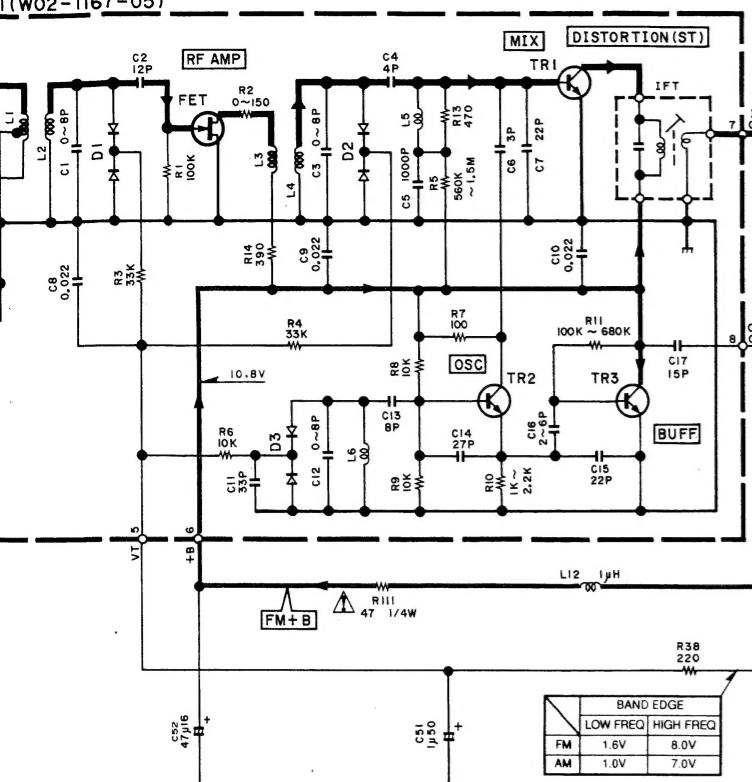


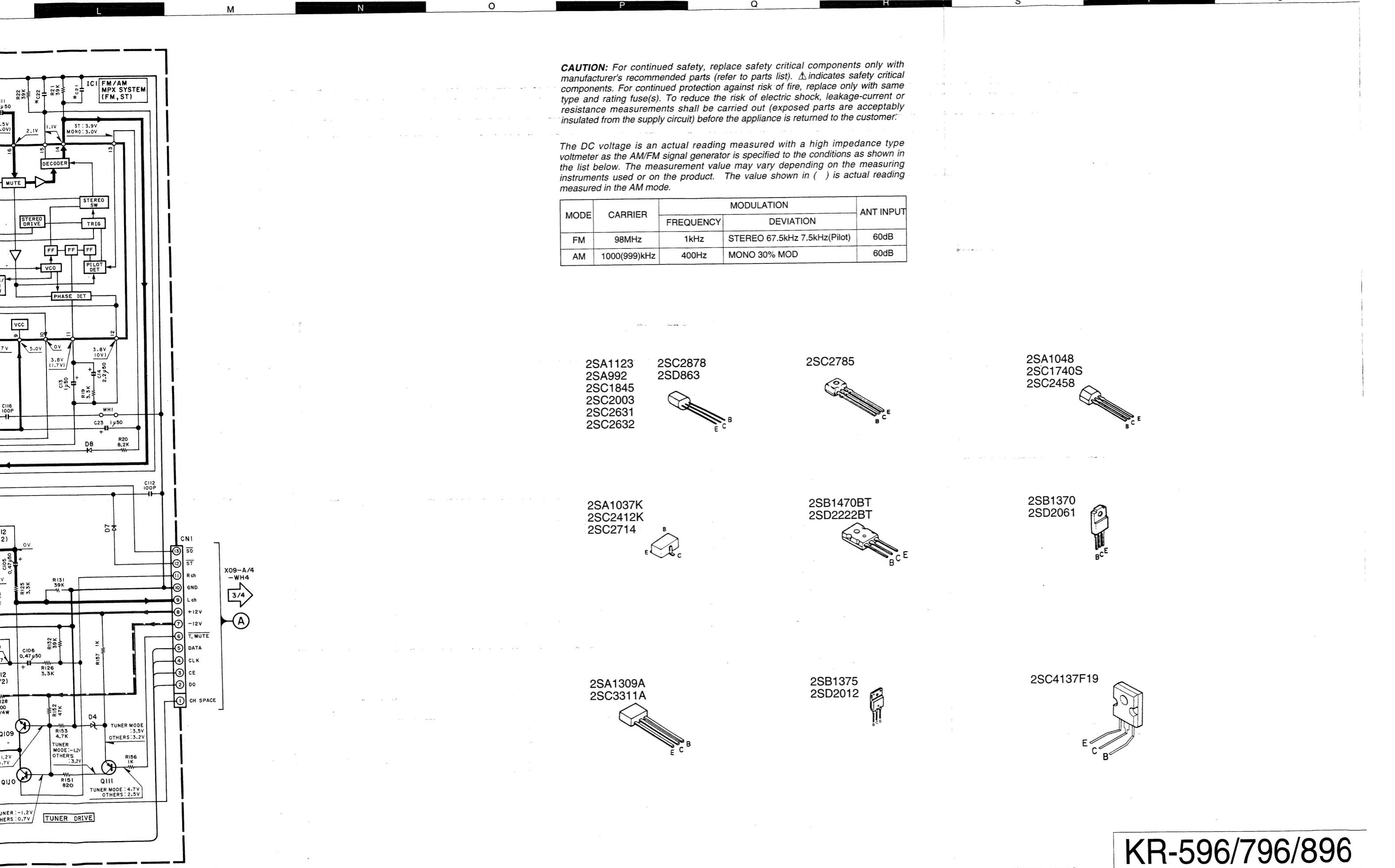
(Y) TYPE : KR-896 ONLY

| PRODUCT.P.  | DESTINATION COUNTRY | ABB.        | UNIT NAME | Q107, 108 | S101 | R138-141 | C21, 22 | C135, 136 |
|-------------|---------------------|-------------|-----------|-----------|------|----------|---------|-----------|
| CHINA MADE  | K                   | X05-4540-10 | NO        | NO        | NO   | 0.024    | NO      |           |
| CANADA P    | P                   | X05-4540-21 | YES       | YES       | YES  | 0.016    | YES     |           |
| AUSTRALIA X | X                   | X05-4540-71 | NO        | NO        | NO   | 0.016    | NO      |           |

- IC1 : LA1831-KEN  
 IC2 : LC7218  
 IC12 : NJM4565D  
 Q1 : 2SC2714(R,O)  
 Q2 : 2SC1845(F,E)  
 Q3 : 2SC2458(Y,GR) or 2SC3311A(Q,R)  
 or 2SC1740S(Q,R) or 2SC2785(F,E)  
 Q7,107-110 : 2SC2412K  
 Q11 : 2SD663(E,F)  
 Q102,104,111 : 2SA1037K  
 D3 : HZS5.1N(B2) or RD5.1ES(B2)  
 D4 : HZS3.3N(B2) or RD3.3ES(B2)  
 D7,111,112 : MA110  
 D8 : HSS104 or 1SS133  
 D11 : HZS8.2N(B2) or RD8.2ES(B2)

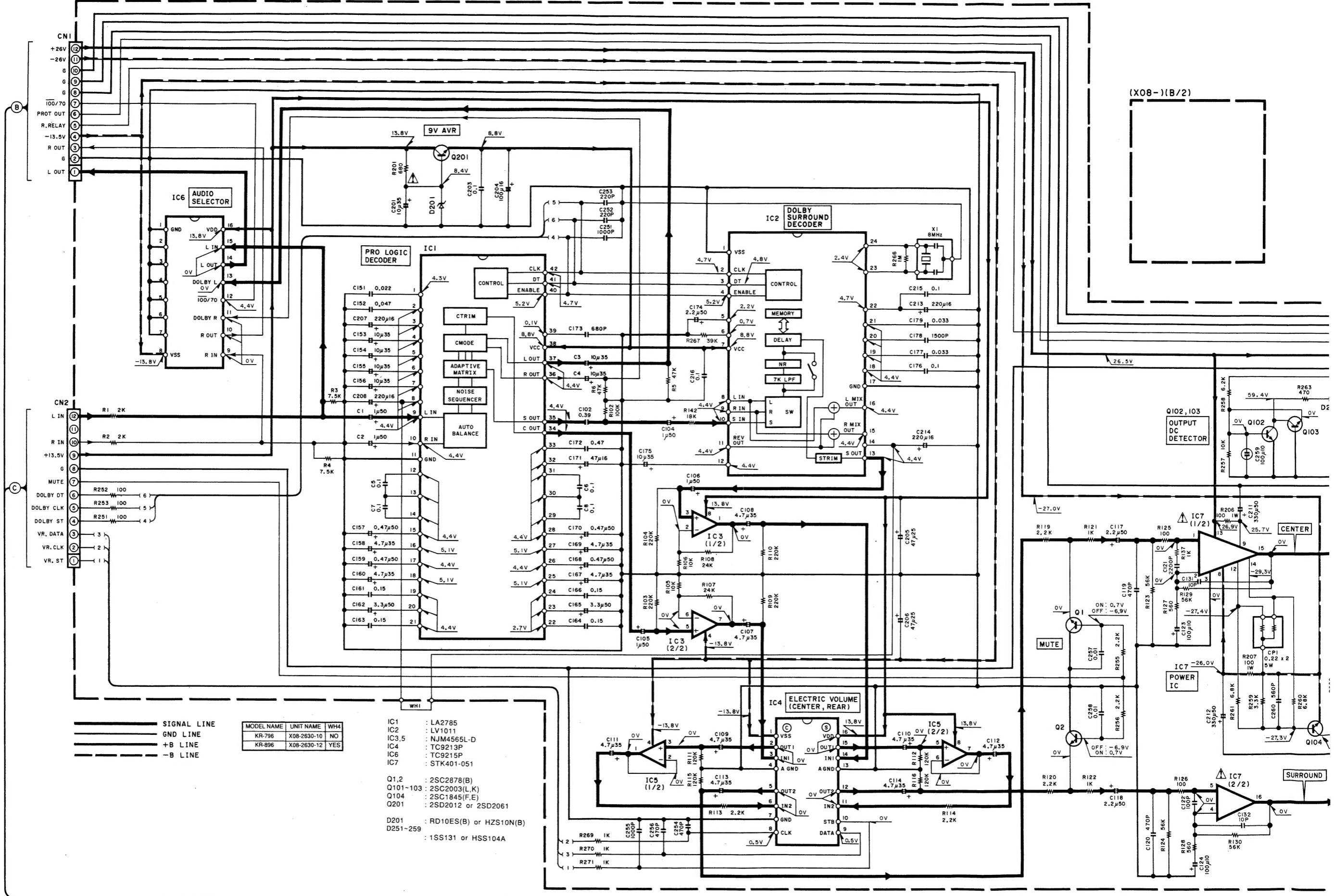
100KH:  
10KH:

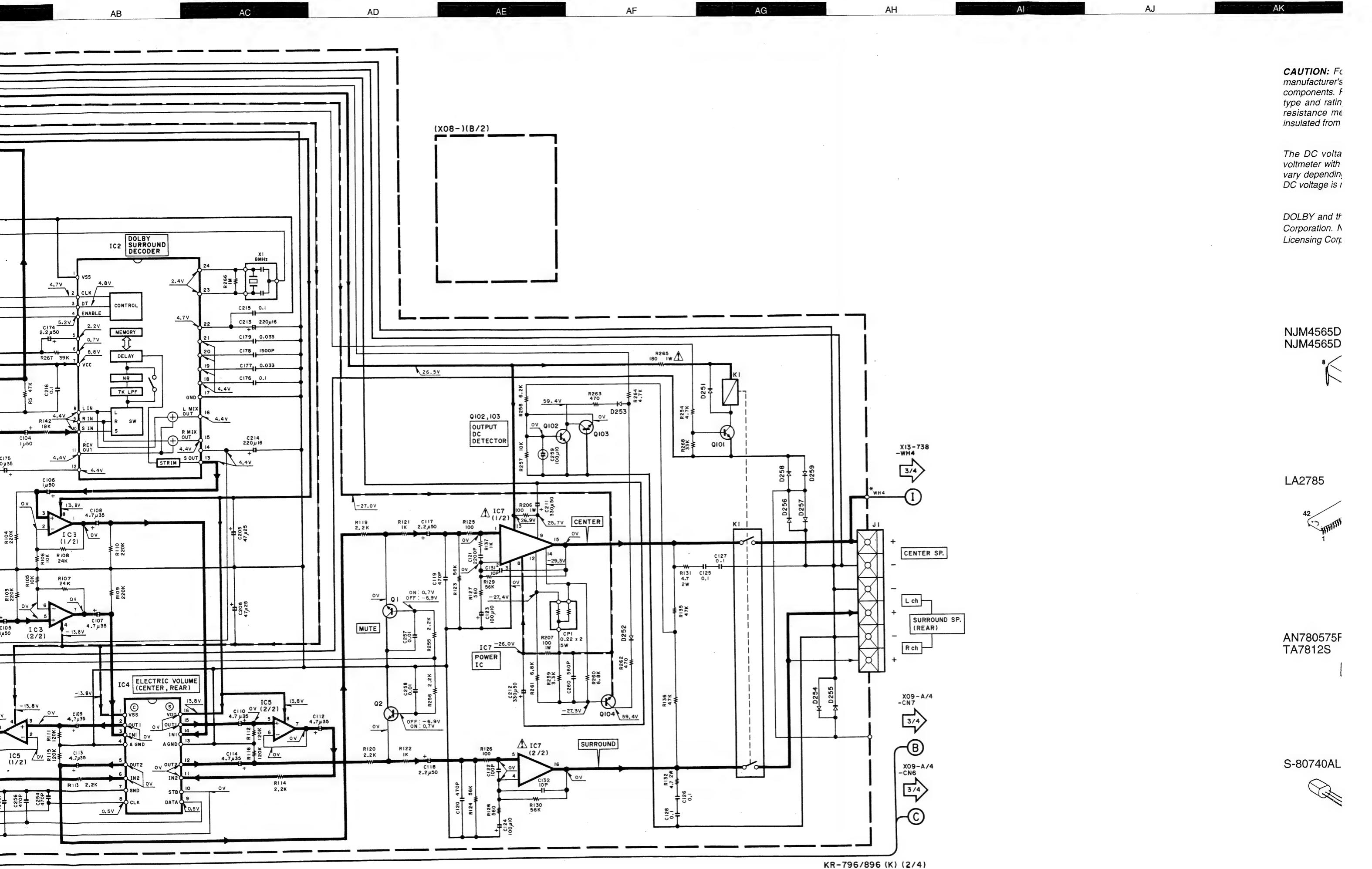


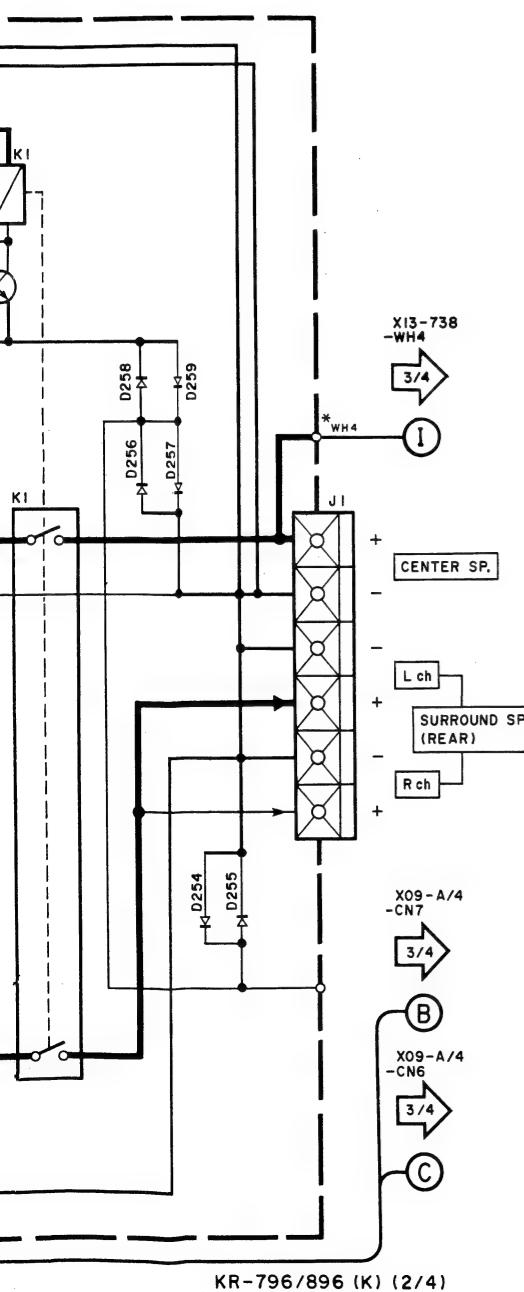
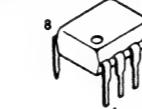
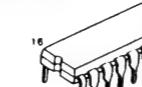


KR-596/796/896

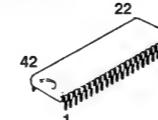
SURROUND UNIT (X08-2630-XX) (A/2) KR-796,896





NJM4565D  
NJM4565D-3TC9213P  
TC9215PNJM4580D-D  
XRA15218-DX

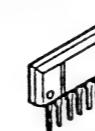
LA2785



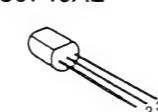
UPC7812AHF

AN780575F  
TA7812S

NJM4565L-D



S-80740AL



Y05-3150-00

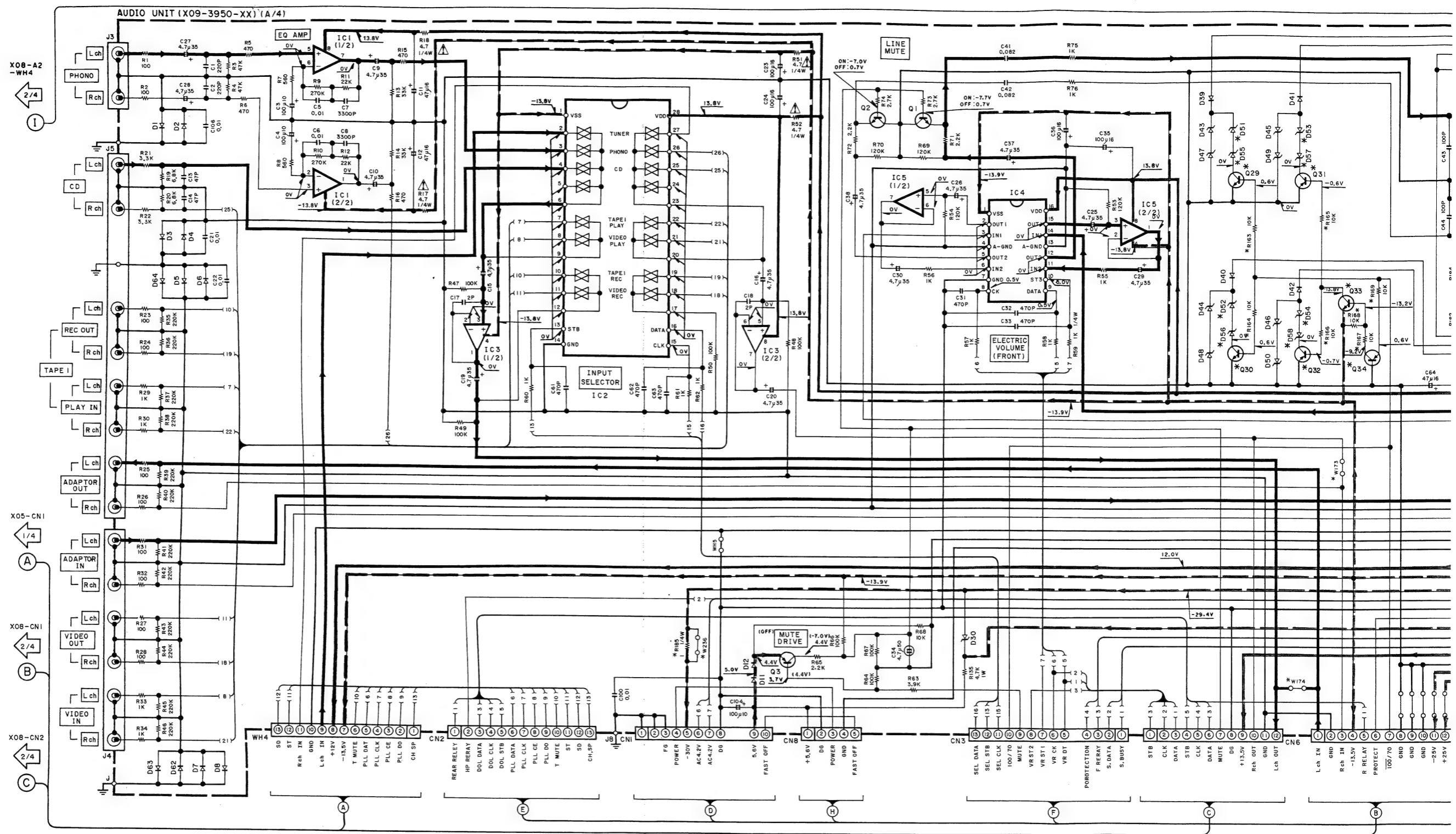
KR-596/796/896

KENWOOD

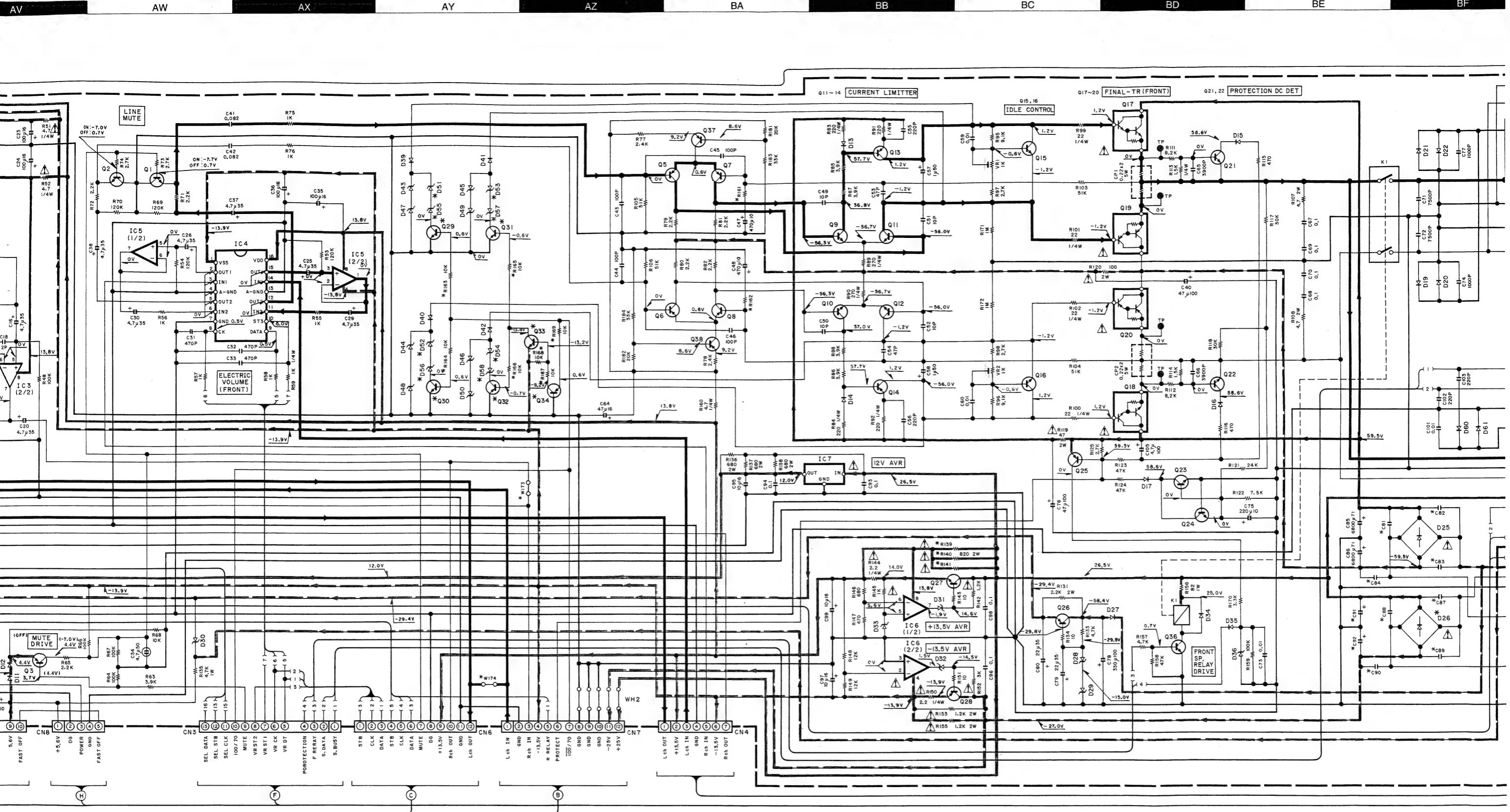
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

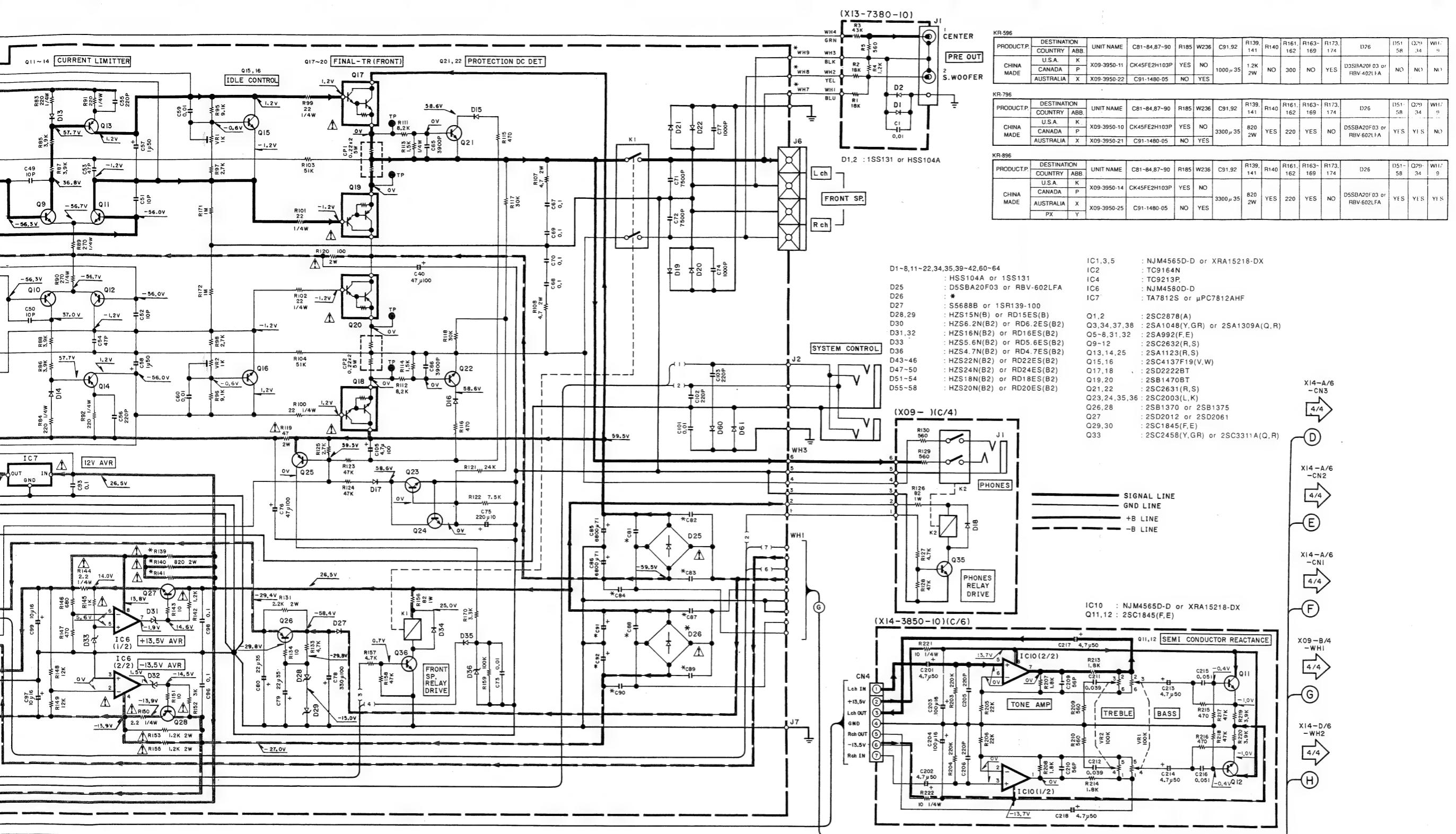


**CAUTION:** For continued safety, replace safety critical components with manufacturer's recommended parts (refer to parts list).  $\triangle$  indicates safety components. For continued protection against risk of fire, replace only with type and rating fuse(s). To reduce the risk of electric shock, leakage-current resistance measurements shall be carried out (exposed parts are ac-insulated from the supply circuit) before the appliance is returned to the customer.



**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\triangle$  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.



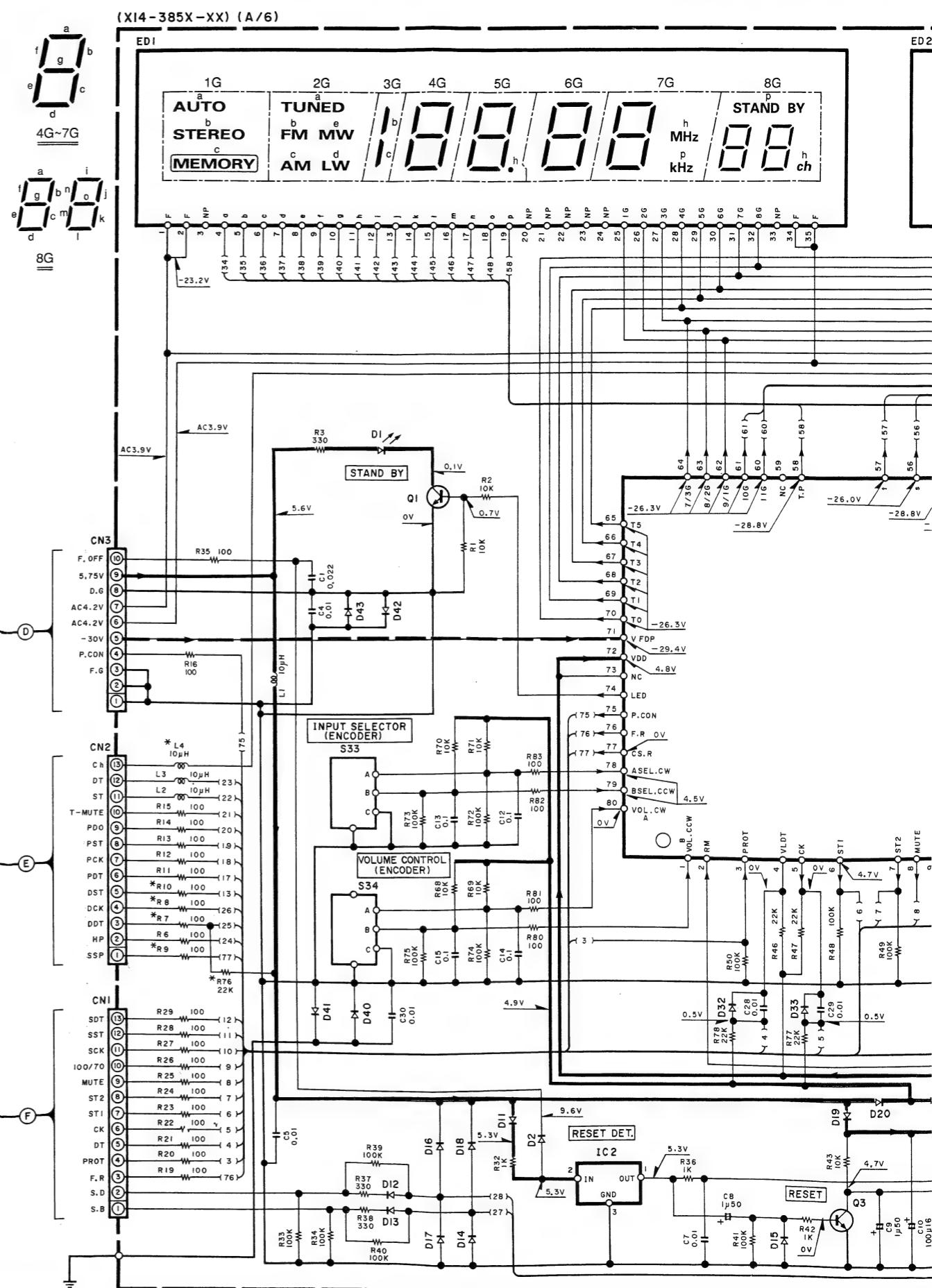
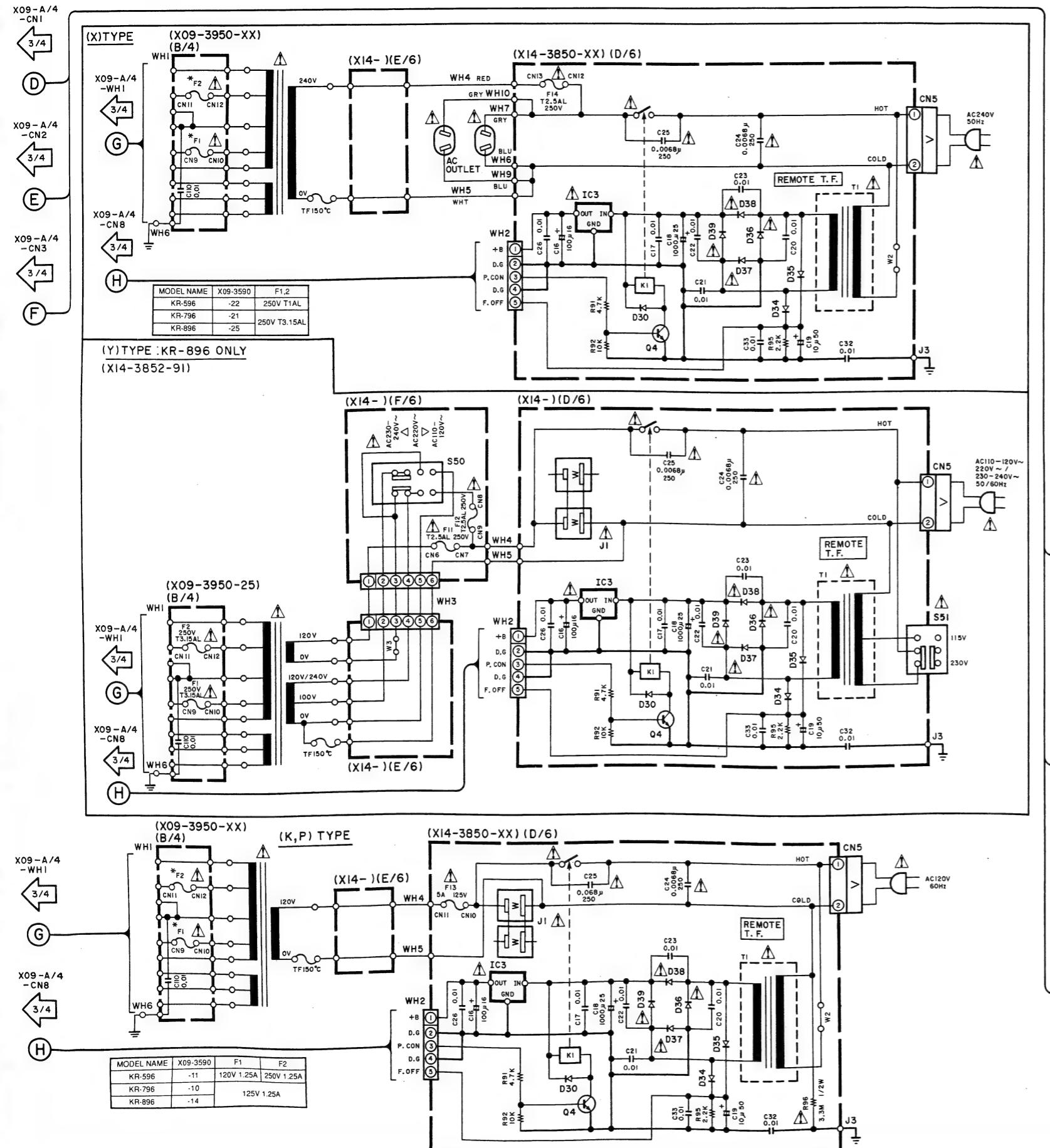
*Range is an actual reading measured with a high impedance type cassette loaded at playback mode. The measurement value may depend on the measuring instruments used or on the product. Bias circuit measured while in the record mode.*

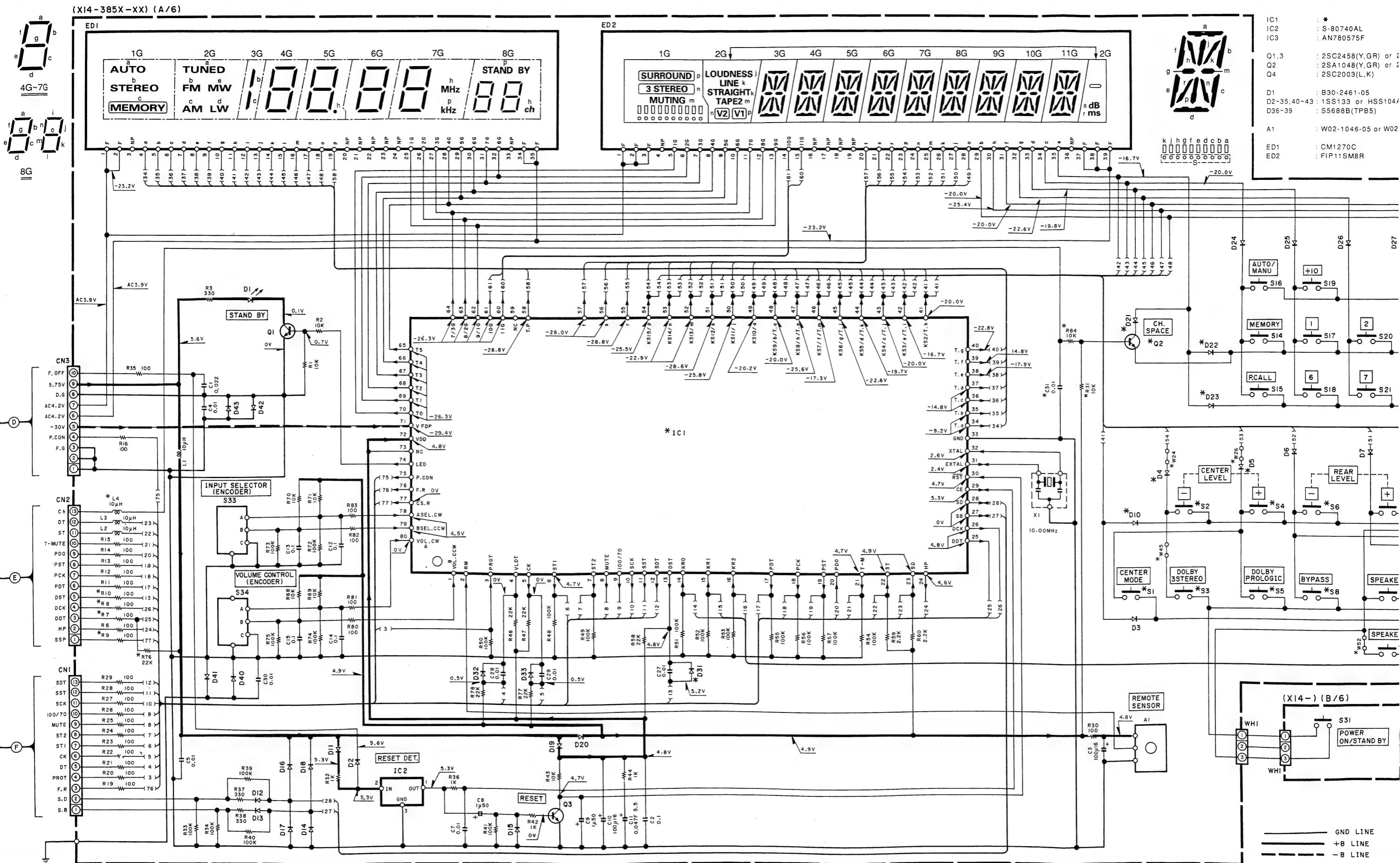
KR-596/796/896 (K) (3/4)

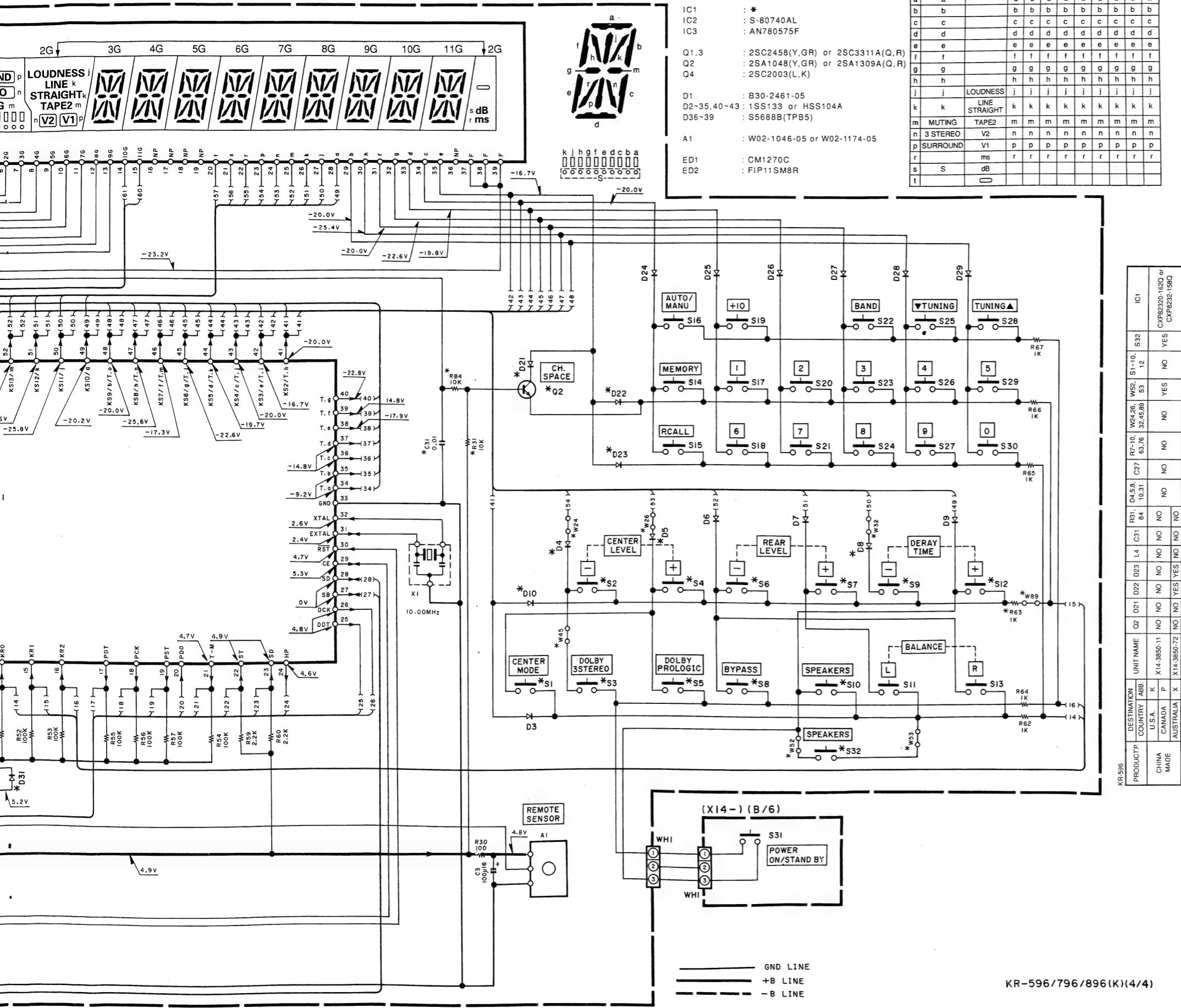
Y05-3150-00

**KR-596/796/896**

**KENWOOD**







**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

| PRODUCT    | DESTINATION | COUNTRY ABB. | UNIT NAME   | O2  | D21 | D22 | D23 | L4  | C31 | R31 | D4-5,8 | C27 | R7-10 | W24-26 | W52 | S1-10 | S32 | IC1                         |
|------------|-------------|--------------|-------------|-----|-----|-----|-----|-----|-----|-----|--------|-----|-------|--------|-----|-------|-----|-----------------------------|
| CHINA MADE | U.S.A.      | K            | X14-3850-11 | NO     | NO  | NO    | NO     | YES | NO    | NO  | CXP82320-16Q or CXP8232-15Q |
| CHINA MADE | CANADA      | P            | X14-3850-71 | NO  | NO  | YES | NO  | NO  | NO  | NO  | NO     | NO  | NO    | NO     | YES | NO    | YES | NO                          |
| CHINA MADE | AUSTRALIA   | X            | X14-3852-31 | YES | YES | NO  | YES | YES | YES | YES | YES    | YES | YES   | YES    | YES | YES   | YES | NO                          |

KR-796/896

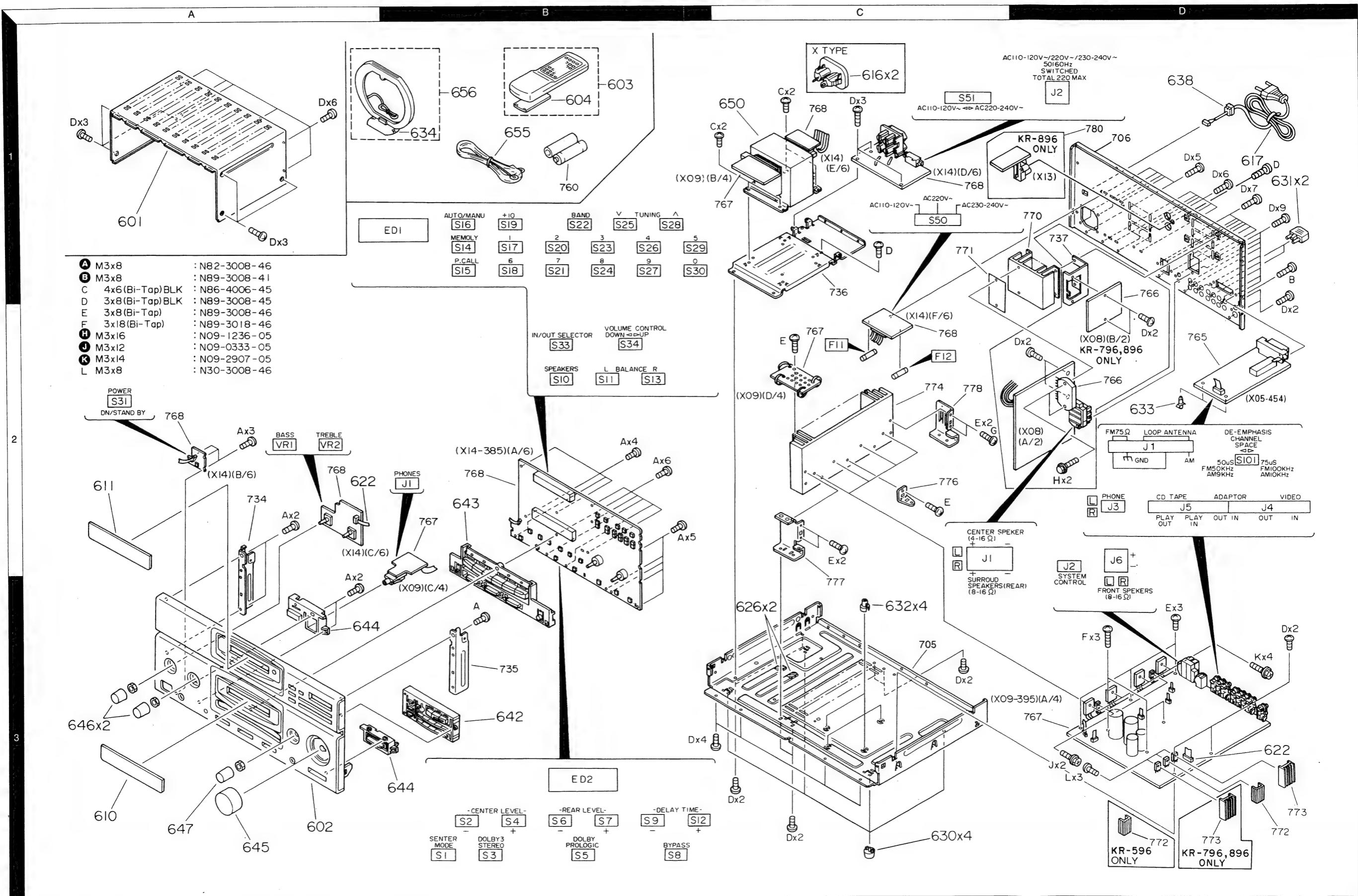
KR-596/796/896(K)(4/4)

Y05-3150-00

**KR-596/796/896**  
KENWOOD

**KR-596/796/896      KR-596/796/896**

**EXPLODED VIEW**



**Parts with the exploded numbers larger than 700 are not supplied.**

# KR-596/796/896

## PARTS LIST

# KR-596/796/896

## PARTS LIST

2

\*New Parts  
Parts without **Parts No.** are not supplied.  
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.  
Teile ohne **Parts No.** werden nicht geliefert.

1

| Ref. No               | Add-<br>ress | New<br>Parts | Parts No.   | Description                   | Desti-<br>nation | Re-<br>marks |
|-----------------------|--------------|--------------|-------------|-------------------------------|------------------|--------------|
| <b>KR-596/796/896</b> |              |              |             |                               |                  |              |
| 601                   | 1A           | *            | A01-3107-21 | METALLIC CABINET              |                  |              |
| 602                   | 3A           | *            | A60-0867-01 | PANEL (796)                   |                  |              |
| 602                   | 3A           | *            | A60-0868-01 | PANEL (596)                   |                  |              |
| 602                   | 3A           | *            | A60-0869-01 | PANEL (896)                   |                  |              |
| 603                   | 1B           |              | A70-0974-05 | REMOTE CONTROLLER ASSY (7,8)  |                  |              |
| 603                   | 1B           |              | A70-0975-05 | REMOTE CONTROLLER ASSY (596)  |                  |              |
| 604                   | 1B           |              | A09-0170-08 | BATTERY COVER                 |                  |              |
| 610                   | 3A           |              | B03-2942-03 | DRESSING PLATE                |                  |              |
| 611                   | 2A           |              | B03-2895-23 | DRESSING PLATE                | KY               |              |
|                       |              |              | B46-0092-43 | WARRANTY CARD                 | X                |              |
|                       |              |              | B46-0096-53 | WARRANTY CARD                 | P                |              |
|                       |              |              | B46-0121-33 | WARRANTY CARD                 | P                |              |
|                       |              |              | B58-0964-13 | CAUTION CARD (UL)             | KY               |              |
|                       |              |              | B58-0965-13 | CAUTION CARD (T,X TYPE PL)    | X                |              |
|                       |              |              | B58-0967-03 | CAUTION CARD (P TYPE PL)      | P                |              |
|                       |              |              | B58-0968-04 | CAUTION CARD (896)            | Y                |              |
|                       |              |              | B58-1505-03 | CAUTION CARD                  | K                |              |
|                       |              |              | B59-1104-00 | SERVICE DIRECTORY (896)       | Y                |              |
|                       |              | *            | B60-2531-00 | INSTRUCTION MANUAL (ENGLISH)  | PX               |              |
|                       |              | *            | B60-2532-00 | INSTRUCTION MANUAL (FRENCH)   | P                |              |
| △ 616                 | 1C           | *            | E03-0326-05 | AC OUTLET                     | X                |              |
| △ 617                 | 1D           | *            | E30-2787-05 | AC POWER CORD                 | KP               |              |
| △ 617                 | 1D           |              | E30-2789-05 | AC POWER CORD (896)           | Y                |              |
| △ 617                 | 1D           |              | E30-2790-05 | AC POWER CORD                 | X                |              |
| 622                   | 2A,3D        |              | E35-0765-05 | FLAT CABLE                    |                  |              |
|                       |              |              | G11-2221-04 | CUSHION                       |                  |              |
|                       |              |              | H13-0188-04 | CARTON BOARD                  | X                |              |
|                       |              |              | H10-5698-02 | POLYSTYRENE FOAMED FIXTURE    |                  |              |
|                       |              |              | H10-5699-02 | POLYSTYRENE FOAMED FIXTURE    |                  |              |
|                       |              |              | H25-0232-04 | PROTECTION BAG (235X350X0.03) |                  |              |
|                       |              |              | H25-1517-04 | PROTECTION BAG                |                  |              |
|                       |              | *            | H50-1786-04 | ITEM CARTON CASE (796)        |                  |              |
|                       |              | *            | H50-1787-04 | ITEM CARTON CASE (596)        |                  |              |
|                       |              | *            | H50-1788-04 | ITEM CARTON CASE (896)        |                  |              |
| 630                   | 3C           |              | J02-0366-15 | FOOT                          |                  |              |
| 631                   | 1D           |              | J12-0091-15 | PIN                           |                  |              |
| 632                   | 3G           |              | J19-3657-14 | UNIT HOLDER                   |                  |              |
| 633                   | 2D           |              | J19-3642-05 | UNIT HOLDER                   |                  |              |
| 634                   | 3C           |              | J19-3645-05 | LOOP ANTENNA STAND            |                  |              |
| △ 638                 | 1D           | *            | J42-0083-05 | POWER CORD BUSHING            |                  |              |
|                       |              | *            | J61-0098-05 | WIRE BAND                     |                  |              |
| 642                   | 3B           |              | K29-6066-02 | KNOB                          |                  |              |
| 643                   | 2B           |              | K29-5862-12 | KNOB                          | (596)            |              |
| 643                   | 2B           |              | K29-6089-02 | KNOB                          | (796)(896)       |              |
| 644                   | 3B           |              | K29-5863-23 | KNOB                          |                  |              |
| 645                   | 3A           |              | K29-5864-04 | KNOB                          |                  |              |
| 646                   | 3A           |              | K29-5865-14 | KNOB                          |                  |              |
| 647                   | 3A           |              | K29-5866-04 | KNOB                          |                  |              |
| △ 650                 | 1C           |              | L07-0880-15 | POWER TRANSFORMER(796(896)    | KP               |              |
| △ 650                 | 1C           |              | L07-0881-15 | POWER TRANSFORMER (896)       | Y                |              |

L : Scandinavia K : USA P : Canada (596) : KR-596 (796) : KR-796

Y : PX(Far East, Hawaii) T : Europe E : Europe (896) : KR-896

Y : AAFES(Europe) X : Australia M : Other Areas

△ indicates safety critical components.

\*New Parts  
Parts without **Parts No.** are not supplied.  
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.  
Teile ohne **Parts No.** werden nicht geliefert.

2

| Ref. No                         | Add-<br>ress | New<br>Parts | Parts No.    | Description                  | Desti-<br>nation | Re-<br>marks |
|---------------------------------|--------------|--------------|--------------|------------------------------|------------------|--------------|
| △ 650                           | 1C           |              | L07-0882-15  | POWER TRANSFORMER (796)(896) | X                |              |
| △ 650                           | 1C           |              | L07-0883-25  | POWER TRANSFORMER (596)      | K                |              |
| △ 650                           | 1C           |              | L07-0885-15  | POWER TRANSFORMER (596)      | X                |              |
| △ 650                           | 1C           |              | L07-0970-15  | POWER TRANSFORMER (596)      | P                |              |
| 655                             | 1B           |              | T90-0801-05  | LEAD WIRE ANTENNA            |                  |              |
| 656                             | 1B           |              | T90-0195-05  | LOOP ANTENNA                 |                  |              |
| <b>TUNER UNIT : X05-4540-XX</b> |              |              |              |                              |                  |              |
| C1,2                            |              |              | CK73FB1H103K | CHIP C                       | 0.010UF          | K            |
| C4                              |              |              | CE04LW1A470M | ELECTRO                      | 47UF             | 10WV         |
| C5                              |              |              | CK73FB1H103K | CHIP C                       | 0.010UF          | K            |
| C8                              |              |              | CK73FB1H103K | CHIP C                       | 0.010UF          | K            |
| C10                             |              |              | CK73FB1H102K | CHIP C                       | 1000PF           | K            |
| C11                             |              |              | CE04LW1H4R7M | ELECTRO                      | 4.7UF            | 50WV         |
| C13                             |              |              | CE04LW1H010M | ELECTRO                      | 1.0UF            | 50WV         |
| C14                             |              |              | CE04LW1H2R2M | ELECTRO                      | 2.2UF            | 50WV         |
| C21,22                          |              |              | CQ92FM1H163J | MYLAR                        | 0.016UF          | J            |
| C21,22                          |              |              | CQ92FM1H243J | MYLAR                        | 0.024UF          | J            |
| C23                             |              |              | CE04LW1H010M | ELECTRO                      | 1.0UF            | 50WV         |
| C24                             |              |              | CE04LW1H3R3M | ELECTRO                      | 3.3UF            | 50WV         |
| C25                             |              |              | CE04LW1V100M | ELECTRO                      | 10UF             | 35WV         |
| C27                             |              |              | CK73FB1E473K | CHIP C                       | 0.047UF          | K            |
| C28                             |              |              | CE04LW1V100M | ELECTRO                      | 10UF             | 35WV         |
| C31                             |              |              | CE04LW1A470M | ELECTRO                      | 47UF             | 10WV         |
| C32                             |              |              | CK73FB1H103K | CHIP C                       | 0.010UF          | K            |
| C33                             |              |              | C73FC1H270J  | CHIP C                       | 27PF             | J            |
| C34                             |              |              | C73FC1H220J  | CHIP C                       | 22PF             | J            |
| C35-38                          |              |              | CK73FB1H471K | CHIP C                       | 470PF            | K            |
| C39                             |              |              | CE04LW1C470M | ELECTRO                      | 47UF             | 16WV         |
| C40                             |              |              | CK73FB1H223K | CHIP C                       | 0.022UF          | K            |
| C41                             |              |              | CE04LW1H010M | ELECTRO                      | 1.0UF            | 50WV         |
| C42,43                          |              |              | CK73FB1H103K | CHIP C                       | 0.010UF          | K            |
| C50                             |              |              | C91-0769-05  | CERAMIC                      | 0.010UF          | K            |
| C51                             |              |              | CE04LW1H010M | ELECTRO                      | 1.0UF            | 50WV         |
| C52                             |              |              | CE04LW1C470M | ELECTRO                      | 47UF             | 16WV         |
| C57                             |              |              | CC73FS1H220J | CHIP C                       | 22PF             | J            |
| C65                             |              |              | CE04LW1H010M | ELECTRO                      | 1.0UF            | 50WV         |
| C66                             |              |              | CK73FB1H102K | CHIP C                       | 1000PF           | K            |
| C71                             |              |              | CE04LW1V100M | ELECTRO                      | 10UF             | 35WV         |
| C72                             |              |              | CE04LW1C470M | ELECTRO                      | 47UF             | 16WV         |
| C103-106                        |              |              | CE04LW1H474M | ELECTRO                      | 0.47UF           | 50WV         |
| C107                            |              |              | CK73FB1E473K | CHIP C                       | 0.047UF          | K            |
| C112                            |              |              | CC73FS1H101J | CHIP C                       | 100PF            | J            |
| C114                            |              |              | CK73FB1H681K | CHIP C                       | 680PF            | K            |
| C115,116                        |              |              | CC73FS1H101J | CHIP C                       | 100PF            | J            |
| C121,122                        |              |              | CE04LW1C470M | ELECTRO                      | 47UF             | 16WV         |
| C135,136                        |              |              | CQ92FM1H682J | MYLAR                        | 6800PF           | J            |
| C182                            |              |              | CC73FS1H150J | CHIP C                       | 15PF             | J            |
| CN1                             |              |              | E40-4234-05  | FLAT CABLE CONNECTOR         |                  |              |
| J1                              | 2D           |              | E70-0051-05  | LOCK TERMINAL BOARD          |                  |              |
| J2                              |              |              | F10-0920-14  | SHIELDING PLATE              |                  |              |
| CF1,2                           |              |              | L72-0531-05  | CERAMIC FILTER               |                  |              |
| CF3                             |              |              | L72-0574-05  | CERAMIC FILTER               |                  |              |
| L7                              |              |              | L30-0467-05  | AM IFT                       |                  |              |

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# KR-596/796/896

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|----------|--------------|--------------|---------------|-------------|------------------|--------------|----------|--------------|--------------|---------------|-------------|------------------|--------------|
| C9,10    |              |              | CE04LW1V4R7M  | ELECTRO     | 4.7UF            | 35WV         | C11,12   |              |              | CE04LW1C470M  | ELECTRO     | 47UF             | 16WV         |
| C11,12   |              |              | CE04LW1C470M  | ELECTRO     | 47UF             | 16WV         | C13,14   |              |              | C91-0737-05   | CERAMIC     | 47PF             | J            |
| C13,14   |              |              | C91-0737-05   | ELECTRO     | 4.7UF            | 35WV         | C15,16   |              |              | CE04LW1V4R7M  | ELECTRO     | 4.7UF            | 35WV         |
| C15,16   |              |              | CE04LW1H020C  | CERAMIC     | 2.0PF            | C            | C17,18   |              |              | CC45FSL1H020C | CERAMIC     | 2.0PF            | C            |
| C17,18   |              |              |               |             |                  |              | C19,20   |              |              | CE04LW1V4R7M  | ELECTRO     | 4.7UF            | 35WV         |
| C19,20   |              |              | CE04LW1C101M  | CERAMIC     | 0.010UF          | Z            | C21,22   |              |              | CK45FF1H103Z  | ELECTRO     | 100UF            | 16WV         |
| C21,22   |              |              | CE04LW1V4R7M  | ELECTRO     | 4.7UF            | 35WV         | C23,24   |              |              | CE04LW1V4R7M  | ELECTRO     | 4.7UF            | 100WV        |
| C23,24   |              |              | C91-0753-05   | CHIP C      | 470PF            | K            | C25-30   |              |              | CE04LW1A471M  | NP-ELEC     | 4.7UF            | 50WV         |
| C25-30   |              |              | CE04LW1C101M  | ELECTRO     | 100UF            | 16WV         | C31-33   |              |              | CE04LW1V4R7M  | ELECTRO     | 100UF            | 16WV         |
| C31-33   |              |              | CE04LW1V4R7M  | ELECTRO     | 4.7UF            | 35WV         | C34      |              |              | CE04LW1C101M  | ELECTRO     | 4.7UF            | 35WV         |
| C34      |              |              | CE04LW1V4R7M  | ELECTRO     | 4.7UF            | 100WV        | C35,36   |              |              | CE04LW1V4R7M  | ELECTRO     | 4.7UF            | 100WV        |
| C35,36   |              |              | CE04LW1V4R7M  | ELECTRO     | 4.7UF            | 100WV        | C37,38   |              |              | CE04LW1A471M  | NP-ELEC     | 4.7UF            | 50WV         |
| C37,38   |              |              | CE04LW1A471M  | NP-ELEC     | 4.7UF            | 50WV         | C40      |              |              | CE04LW1V4R7M  | ELECTRO     | 4.7UF            | 100WV        |
| C40      |              |              | CE04LW1V4R7M  | ELECTRO     | 4.7UF            | 100WV        | C41,42   |              |              | CE04LW1V4R7M  | ELECTRO     | 4.7UF            | 100WV        |
| C41,42   |              |              | CE04LW1V4R7M  | ELECTRO     | 4.7UF            | 100WV        | C43-46   |              |              | CC45FSL1H101J | CERAMIC     | 100PF            | J            |
| C43-46   |              |              | CC45FSL1H101J | CERAMIC     | 100PF            | J            | C47,48   |              |              | CE04LW1A471M  | ELECTRO     | 470UF            | 10WV         |
| C47,48   |              |              | CE04LW1A471M  | ELECTRO     | 10PF             | D            | C49-52   |              |              | CC45FSL1H100D | CERAMIC     | 470UF            | 10WV         |
| C49-52   |              |              | CC45FSL1H100D | CERAMIC     | 470UF            | 10WV         | C53,54   |              |              | CC45FSL1H470J | CERAMIC     | 47PF             | J            |
| C53,54   |              |              | CC45FSL1H470J | CERAMIC     | 47PF             | J            | C55,56   |              |              | CC45FSL1H221J | CERAMIC     | 220PF            | J            |
| C55,56   |              |              | CC45FSL1H221J | CERAMIC     | 220PF            | J            | C57,58   |              |              | CE04LW1H010M  | ELECTRO     | 1.0UF            | 50WV         |
| C57,58   |              |              | CE04LW1H010M  | ELECTRO     | 0.010UF          | Z            | C59,60   |              |              | CK45FF1H103Z  | CERAMIC     | 470PF            | Z            |
| C59,60   |              |              | CK45FF1H103Z  | CERAMIC     | 470PF            | Z            | C61      |              |              | CK45FB1H471K  | CERAMIC     | 470PF            | K            |
| C61      |              |              | CK45FB1H471K  | CERAMIC     | 470PF            | K            | C62,63   |              |              | C91-0753-05   | CHIP C      | 470PF            | K            |
| C62,63   |              |              | C91-0753-05   | CHIP C      | 470PF            | K            | C64      |              |              | CE04LW1C470M  | ELECTRO     | 47UF             | 16WV         |
| C64      |              |              | CE04LW1C470M  | ELECTRO     | 47UF             | 16WV         | C65,66   |              |              | CE04LW1H392J  | MYLAR       | 3900PF           | J            |
| C65,66   |              |              | CE04LW1H392J  | MYLAR       | 3900PF           | J            | C67-70   |              |              | CF92FV1H104J  | MF-C        | 0.10UF           | J            |
| C67-70   |              |              | CF92FV1H104J  | MF-C        | 0.10UF           | J            | C71,72   |              |              | CK92FM1H752J  | MYLAR       | 7500PF           | Z            |
| C71,72   |              |              | CK92FM1H752J  | MYLAR       | 7500PF           | Z            | C73      |              |              | CK45FF1H103Z  | CERAMIC     | 0.010UF          | Z            |
| C73      |              |              | CK45FF1H103Z  | CERAMIC     | 0.010UF          | Z            | C74      |              |              | CK45FB1H102K  | CERAMIC     | 1000PF           | K            |
| C74      |              |              | CK45FB1H102K  | CERAMIC     | 1000PF           | K            | C75      |              |              | CE04LW1A221M  | ELECTRO     | 220UF            | 10WV         |
| C75      |              |              | CE04LW1A221M  | ELECTRO     | 47UF             | 100WV        | C76      |              |              | CE04LW2A470M  | ELECTRO     | 47UF             | 100WV        |
| C76      |              |              | CE04LW2A470M  | ELECTRO     | 1000PF           | K            | C77      |              |              | CK45FB1H102K  | CERAMIC     | 330UF            | 100WV        |
| C77      |              |              | CK45FB1H102K  | CERAMIC     | 330UF            | 100WV        | C78      |              |              | CE04LW2A331M  | ELECTRO     | 22UF             | 35WV         |
| C78      |              |              | CE04LW2A331M  | ELECTRO     | 22UF             | 35WV         | C79,80   |              |              | CE04LW1V220M  | ELECTRO     | 220UF            | 10WV         |
| C79,80   |              |              | CE04LW1V220M  | ELECTRO     | 47UF             | 100WV        | C81-84   |              |              | CK45FE2H103P  | CERAMIC     | 0.010UF          | P            |
| C81-84   |              |              | CK45FE2H103P  | CERAMIC     | 0.010UF          | P            | C81-84   |              |              | C91-1480-05   | MP          | 0.22UF           | 250WV        |
| C81-84   |              |              | C91-1480-05   | MP          | 0.22UF           | 250WV        | C85,86   |              |              | C90-3579-05   | ELECTRO     | 4700UF           | 71WV         |
| C85,86   |              |              | C90-3579-05   | ELECTRO     | 4700UF           | 71WV         | C87-90   |              |              | CK45FE2H103P  | CERAMIC     | 0.010UF          | P            |
| C87-90   |              |              | CK45FE2H103P  | CERAMIC     | 0.010UF          | P            | C87-90   |              |              | C91-1480-05   | MP          | 0.22UF           | 250WV        |
| C87-90   |              |              | C91-1480-05   | MP          | 0.22UF           | 250WV        | C91,92   |              |              | CE04LW1V102M  | ELECTRO     | 1000UF           | 35WV         |
| C91,92   |              |              | CE04LW1V102M  | ELECTRO     | 1000UF           | 35WV         | C91,92   |              |              | CE04LW1V332M  | ELECTRO     | 3300UF           | 35WV         |
| C91,92   |              |              | CE04LW1V332M  | ELECTRO     | 3300UF           | 35WV         | C93,94   |              |              | CK92FM1H104J  | MYLAR       | 0.10UF           | J            |
| C93,94   |              |              | CK92FM1H104J  | MYLAR       | 0.10UF           | J            | C95      |              |              | CE04LW1C100M  | ELECTRO     | 10UF             | 16WV         |
| C95      |              |              | CE04LW1C100M  | ELECTRO     | 10UF             | 16WV         | C96      |              |              | CK92FM1H104J  | MYLAR       | 0.10UF           | J            |
| C96      |              |              | CK92FM1H104J  | MYLAR       | 0.10UF           | J            | C97      |              |              | CE04LW1C100M  | ELECTRO     | 10UF             | 16WV         |
| C97      |              |              | CE04LW1C100M  | ELECTRO     | 10UF             | 16WV         | C98      |              |              | CQ92FM1H104J  | MYLAR       | 0.10UF           | J            |
| C98      |              |              | CQ92FM1H104J  | MYLAR       | 0.10UF           | J            | C99      |              |              | CE04LW1C100M  | ELECTRO     | 10UF             | 16WV         |
| C99      |              |              | CE04LW1C100M  | ELECTRO     | 10UF             | 16WV         | C100,101 |              |              | CK45FF1H103Z  | CERAMIC     | 0.010UF          | Z            |
| C100,101 |              |              | CK45FF1H103Z  | CERAMIC     | 0.010UF          | Z            | C102,103 |              |              | CC45FSL1H221J | CERAMIC     | 220PF            | J            |
| C102,103 |              |              | CC45FSL1H221J | CERAMIC     | 220PF            | J            | C104     |              |              | CE04LW1A101M  | ELECTRO     | 100UF            | 10WV         |
| C104     |              |              | CE04LW1A101M  | ELECTRO     | 100UF            | 10WV         | C105     |              |              | CE04LW2A44R7M | ELECTRO     | 4.7UF            | 100WV        |
| C105     |              |              | CE04LW2A44R7M | ELECTRO     | 4.7UF            | 100WV        | C106     |              |              | CK45FF1H103Z  | CERAMIC     | 0.010UF          | Z            |
| C106     |              |              | CK45FF1H103Z  | CERAMIC     | 0.010UF          | Z            | C110     |              |              | CK45FF1H103Z  | CERAMIC     | 0.010UF          | Z            |
| C110     |              |              | CK45FF1H103Z  | CERAMIC     | 0.010UF          | Z            |          |              |              |               |             |                  |              |

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|------------|--------------|--------------|--------------|-----------------------------|--------|---|------------------|--------------|
| CN1        |              |              | E40-4615-05  | SOCKET FOR PIN ASSY         |        |   |                  |              |
| CN2,3      |              |              | E40-4590-05  | SOCKET FOR PIN ASSY         |        |   |                  |              |
| CN4        |              |              | E40-4147-05  | FLAT CABLE CONNECTOR        |        |   |                  |              |
| CN6,7      |              |              | E40-4747-05  | PIN ASSY                    |        |   |                  |              |
| CN8        |              |              | E40-4295-05  | FLAT CABLE CONNECTOR        |        |   |                  |              |
| J1         |              |              | E11-0207-05  | PHONE JACK (3P)             |        |   |                  |              |
| J2         |              |              | E11-0188-05  | MINIATURE PHONE JACK(2P)    |        |   |                  |              |
| J3         |              |              | E63-0133-15  | PHONO JACK                  |        |   |                  |              |
| J4         |              |              | E63-0139-15  | PHONO JACK                  |        |   |                  |              |
| J5         |              |              | E63-0141-15  | PHONO JACK                  |        |   |                  |              |
| J6         |              |              | E70-0053-05  | LOCK TERMINAL BOARD         |        |   |                  |              |
| △ F1,2     |              |              | F05-3121-05  | FUSE (SEMKO) (250V T3.15AL) |        |   | YX               |              |
| △ F1,2     |              |              | F05-4028-05  | FUSE (UL) (125V 4A)         |        |   | KP               |              |
| △ F1,2     |              |              | F06-1022-05  |                             |        |   | X                |              |
| △ F1,2     |              |              | F06-1222-05  |                             |        |   | KP               |              |
| CN9-12     |              |              | J13-0075-05  | FUSE CLIP                   |        |   |                  |              |
| CP1,2      |              |              | R90-0826-05  | MULTI-COMP                  | 0.22X2 | J | 5W               |              |
| △ R17,18   |              |              | RD14NB2E4R7J | RD                          | 4.7    | J | 1/4W             |              |
| △ R51,52   |              |              | RD14NB2E4R7J | RD                          | 4.7    | J | 1/4W             |              |
| R83,84     |              |              | RD14NB2E221J | RD                          | 220    | J | 1/4W             |              |
| R89,90     |              |              | RD14NB2E271J | RD                          | 270    | J | 1/4W             |              |
| R91,92     |              |              | RD14NB2E221J | RD                          | 220    | J | 1/4W             |              |
| R99-102    |              |              | RD14NB2E220J | RD                          | 22     | J | 1/4W             |              |
| R107,108   |              |              | RS14KB3D4R7J | FL-PROOF RS                 | 4.7    | J | 2W               |              |
| △ R119     |              |              | RS14KB3D470J | FL-PROOF RS                 | 47     | J | 2W               |              |
| △ R120     |              |              | RS14KB3D101J | FL-PROOF RS                 | 100    | J | 2W               |              |
| R126       |              |              | RS14KB3A820J | FL-PROOF RS                 | 82     | J | 1W               |              |
| R129,130   |              |              | RS14KB3D561J | FL-PROOF RS                 | 560    | J | 2W               |              |
| R131       |              |              | RS14KB3D222J | FL-PROOF RS                 | 2.2K   | J | 2W               |              |
| R135       |              |              | RS14KB3A472J | FL-PROOF RS                 | 4.7K   | J | 1W               |              |
| R136-138   |              |              | RS14KB3D681J | FL-PROOF RS                 | 680    | J | 2W               |              |
| R139       |              |              | RS14KB3D122J | FL-PROOF RS                 | 1.2K   | J | 2W               |              |
| △ R139-141 |              |              | RS14KB3D821J | FL-PROOF RS                 | 820    | J | 2W               |              |
| △ R144     |              |              | RD14NB2E2R2J | RD                          | 2.2    | J | 1/4W             |              |
| △ R150     |              |              | RD14NB2E2R2J | RD                          | 2.2    | J | 1/4W             |              |
| △ R153     |              |              | RS14KB3D122J | FL-PROOF RS                 | 1.2K   | J | 2W               |              |
| △ R155     |              |              | RS14KB3D122J | FL-PROOF RS                 | 1.2K   | J | 2W               |              |
| R156       |              |              | RS14KB3A820J | FL-PROOF RS                 | 82     | J | 1W               |              |
| R160       |              |              | RD14NB2E4R7J | RD                          | 4.7    | J | 1/4W             |              |
| R185       |              |              | RD14GB2E1R0J | FL-PROOF RD                 | 1.0    | J | 1/4W             |              |
| VR1,2      |              |              | R12-1616-05  | TRIMMING POT.(1K)           |        |   | KP               |              |
| K1         |              |              | S51-2078-05  | MAGNETIC RELAY              |        |   |                  |              |
| K2         |              |              | S76-0005-05  | MAGNETIC RELAY              |        |   |                  |              |
| D1-8       |              |              | HSS104A      | DIODE                       |        |   |                  |              |
| D1-8       |              |              | 1SS131       | DIODE                       |        |   |                  |              |
| D11-22     |              |              | HSS104A      | DIODE                       |        |   |                  |              |
| D11-22     |              |              | 1SS131       | DIODE                       |        |   |                  |              |
| D25,26     |              |              | D5SBA20F03   | DIODE                       |        |   |                  |              |
| D25,26     |              |              | RBV-602LFA   | DIODE                       |        |   |                  |              |
| D26        |              |              | D3SBA20F03   | DIODE                       |        |   |                  |              |
| D26        |              |              | RBV-402LFA   | DIODE                       |        |   |                  |              |
| D27        |              |              | S5688B       | DIODE                       |        |   |                  |              |
| D27        |              |              | 1SR139-100   | DIODE                       |        |   |                  |              |

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|---------|--------------|--------------|-----------------|--------------------------------|--|--|------------------|--------------|
| D28,29  |              |              | HZS15N(B)       | ZENER DIODE                    |  |  |                  |              |
| D28,29  |              |              | RD15ES(B)       | ZENER DIODE                    |  |  |                  |              |
| D30     |              |              | HZS6.2N(B2)     | ZENER DIODE                    |  |  |                  |              |
| D30     |              |              | RD6.2ES(B2)     | ZENER DIODE                    |  |  |                  |              |
| D31,32  |              |              | HZS16N(B2)      | ZENER DIODE                    |  |  |                  |              |
| D31,32  |              |              | RD16ES(B2)      | ZENER DIODE                    |  |  |                  |              |
| D33     |              |              | HZS5.6N(B2)     | ZENER DIODE                    |  |  |                  |              |
| D33     |              |              | RD5.6ES(B2)     | ZENER DIODE                    |  |  |                  |              |
| D34,35  |              |              | HSS104A         | DIODE                          |  |  |                  |              |
| D34,35  |              |              | 1SS131          | DIODE                          |  |  |                  |              |
| D36     |              |              | HZS4.7N(B2)     | ZENER DIODE                    |  |  |                  |              |
| D36     |              |              | RD4.7ES(B2)     | ZENER DIODE                    |  |  |                  |              |
| D39-42  |              |              | HSS104A         | DIODE                          |  |  |                  |              |
| D39-42  |              |              | 1SS131          | DIODE                          |  |  |                  |              |
| D43-46  |              |              | HZS22N(B2)      | ZENER DIODE                    |  |  |                  |              |
| D43-46  |              |              | RD22ES(B2)      | ZENER DIODE                    |  |  |                  |              |
| D47-50  |              |              | HZS24N(B2)      | ZENER DIODE                    |  |  |                  |              |
| D51-54  |              |              | RD24ES(B2)      | ZENER DIODE                    |  |  |                  |              |
| D51-54  |              |              | HZS18N(B2)      | ZENER DIODE                    |  |  |                  |              |
| D51-54  |              |              | RD18ES(B2)      | ZENER DIODE                    |  |  |                  |              |
| D55-58  |              |              | HZS20N(B2)      | ZENER DIODE                    |  |  |                  |              |
| D55-58  |              |              | RD20ES(B2)      | ZENER DIODE                    |  |  |                  |              |
| D60-64  |              |              | HSS104A         | DIODE                          |  |  |                  |              |
| D60-64  |              |              | NJM4565D-D      | IC(OP AMP X2)                  |  |  |                  |              |
| IC1     |              |              | XRA15218-DX     | IC(OP AMP X2)                  |  |  |                  |              |
| IC1     |              |              | TC9164N         | IC(16CH BILATERAL SELECTOR SW) |  |  |                  |              |
| IC2     |              |              | NJM4565D-D      | IC(OP AMP X2)                  |  |  |                  |              |
| IC3     |              |              | XRA15218-DX     | IC(OP AMP X2)                  |  |  |                  |              |
| IC4     |              |              | TC9213P         | IC(2CH ELECTRONIC VOLUME)      |  |  |                  |              |
| IC5     |              |              | NJM4565D-D      | IC(OP AMP X2)                  |  |  |                  |              |
| IC5     |              |              | XRA15218-DX     | IC(OP AMP X2)                  |  |  |                  |              |
| IC6     |              |              | NJM4580D-D      | IC(OP AMP X2)                  |  |  |                  |              |
| IC7     |              |              | T7812S          | IC(VOLTAGE REGULATOR/+12V)     |  |  |                  |              |
| IC7     |              |              | UPC7812AHF      | IC(VOLTAGE REGULATOR/+12V)     |  |  |                  |              |
| Q1,2    |              |              | 2SC2878(B)      | TRANSISTOR                     |  |  |                  |              |
| Q3      |              |              | 2SA1048(Y,GR)   | TRANSISTOR                     |  |  |                  |              |
| Q3      |              |              | 2SA1309A(Q,R)   | TRANSISTOR                     |  |  |                  |              |
| Q5-8    |              |              | 2SA992(F,E)     | TRANSISTOR                     |  |  |                  |              |
| Q9-12   |              |              | 2SC2632(R,S)    | TRANSISTOR                     |  |  |                  |              |
| Q13,14  |              |              | 2SA1123(R,S)    | TRANSISTOR                     |  |  |                  |              |
| Q15,16  |              |              | 2SC4137F19(V,W) | TRANSISTOR                     |  |  |                  |              |
| Q17,18  |              |              | 2SD2222BT       | TRANSISTOR                     |  |  |                  |              |
| Q19,20  |              |              | 2SB1470BT       | TRANSISTOR                     |  |  |                  |              |
| Q21,22  |              |              | 2SC2631(R,S)    | TRANSISTOR                     |  |  |                  |              |
| Q23,24  |              |              | 2SC2003(L,K)    | TRANSISTOR                     |  |  |                  |              |
| Q25     |              |              | 2SA1123(R,S)    | TRANSISTOR                     |  |  |                  |              |
| Q26     |              |              | 2SB1370         | TRANSISTOR                     |  |  |                  |              |
| Q26     |              |              | 2SB1375         | TRANSISTOR                     |  |  |                  |              |
| Q27     |              |              | 2SD2012         | TRANSISTOR                     |  |  |                  |              |
| Q27     |              |              | 2SD2061         | TRANSISTOR                     |  |  |                  |              |
| Q28     |              |              | 2SB1370         | TRANSISTOR                     |  |  |                  |              |
| Q28     |              |              | 2SB1375         | TRANSISTOR                     |  |  |                  |              |
| Q29,30  |              |              | 2SC1845(F,E)    | TRANSISTOR                     |  |  |                  |              |
| Q31,32  |              |              | 2SA992(F,E)     | TRANSISTOR                     |  |  |                  |              |

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| Ref. No | Add-<br>ress | New<br>Parts | Parts No.     | Description | Desti-<br>nation | Re-<br>marks |
|---------|--------------|--------------|---------------|-------------|------------------|--------------|
| Q33     |              |              | 2SC2458(Y,GR) | TRANSISTOR  |                  |              |
| Q33     |              |              | 2SC3311A(Q,R) | TRANSISTOR  |                  |              |
| Q34     |              |              | 2SA1048(Y,GR) | TRANSISTOR  |                  |              |
| Q34     |              |              | 2SA1309A(Q,R) | TRANSISTOR  |                  |              |
| Q35,36  |              |              | 2SC2003(L,K)  | TRANSISTOR  |                  |              |
| Q37,38  |              |              | 2SA1048(Y,GR) | TRANSISTOR  |                  |              |
| Q37,38  |              |              | 2SA1309A(Q,R) | TRANSISTOR  |                  |              |

### PRE OUT UNIT : X13-7380-10 (KR-896 ONLY)

|      |  |              |         |            |  |  |
|------|--|--------------|---------|------------|--|--|
| C1   |  | CK45FF1H103Z | CERAMIC | 0.010UF Z  |  |  |
| J1   |  | E63-0135-15  |         | PHONO JACK |  |  |
| D1,2 |  | HSS104A      | DIODE   |            |  |  |
| D1,2 |  | 1SS131       | DIODE   |            |  |  |

### DISPLAY UNIT : X14-3850-XX

|          |  |               |                      |               |     |     |
|----------|--|---------------|----------------------|---------------|-----|-----|
| D1       |  | B30-2461-05   | LED(RED,5)           |               |     |     |
| C1       |  | CK45FF1H223Z  | CERAMIC              | 0.022UF Z     |     |     |
| C2       |  | CF92FV1H104J  | MF-C                 | 0.10UF J      |     |     |
| C3       |  | CE04LW1C101M  | ELECTRO              | 100UF 16WV    |     |     |
| C4,5     |  | C91-0769-05   | CERAMIC              | 0.010UF K     |     |     |
| C7       |  | CK45FF1H103Z  | CERAMIC              | 0.010UF Z     |     |     |
| C8,9     |  | CE04LW1H010M  | ELECTRO              | 1.0UF 50WV    |     |     |
| C10      |  | CE04LW1C101M  | ELECTRO              | 100UF 16WV    |     |     |
| C11      |  | C90-3566-05   | ELECTRO              | 0.047UF 5.5WV |     |     |
| C12-15   |  | CF92FV1H104J  | MF-C                 | 0.10UF J      |     |     |
| C16      |  | CE04LW1C101M  | ELECTRO              | 100UF 16WV    |     |     |
| C17      |  | CK45FF1H103Z  | CERAMIC              | 0.010UF Z     |     |     |
| C18      |  | CE04LW1E102M  | ELECTRO              | 1000UF 25WV   |     |     |
| C19      |  | CE04LW1H100M  | ELECTRO              | 10UF 50WV     |     |     |
| C20-23   |  | CK45FF1H103Z  | CERAMIC              | 0.010UF Z     |     |     |
| C24,25   |  | C91-1488-05   | MF                   | 6800PF 250VAC |     |     |
| C26      |  | CK45FF1H103Z  | CERAMIC              | 0.010UF Z     |     |     |
| C27-30   |  | C91-0769-05   | CERAMIC              | 0.010UF K     |     |     |
| C31-33   |  | CK45FF1H103Z  | CERAMIC              | 0.010UF Z     | Y   | KPX |
| C32,33   |  | CK45FF1H103Z  | CERAMIC              | 0.010UF Z     |     |     |
| C201,202 |  | CE04LW1H4R7M  | ELECTRO              | 4.7UF 50WV    |     |     |
| C203,204 |  | CE04LW1C101M  | ELECTRO              | 100UF 16WV    |     |     |
| C205,206 |  | CC45FSL1H221J | CERAMIC              | 220PF J       |     |     |
| C209,210 |  | CC45FSL1H560J | CERAMIC              | 56PF J        |     |     |
| C211,212 |  | CF92FV1H393J  | MF-C                 | 0.039UF J     |     |     |
| C213,214 |  | CE04LW1H4R7M  | ELECTRO              | 4.7UF 50WV    |     |     |
| C215,216 |  | CF92FV1H513J  | MF-C                 | 0.051UF J     |     |     |
| C217,218 |  | CE04LW1H4R7M  | ELECTRO              | 4.7UF 50WV    |     |     |
| CN1,2    |  | E40-4588-05   | PIN ASSY             |               |     |     |
| CN3      |  | E40-4612-05   | PIN ASSY             |               |     |     |
| CN4      |  | E40-4187-05   | FLAT CABLE CONNECTOR |               |     |     |
| CN5      |  | E40-4245-05   | PIN ASSY             |               |     |     |
| J1       |  | E03-0148-05   | AC OUTLET            |               | KPY |     |
| F11,12   |  | F05-2525-05   | FUSE (SEMKO)         | (250V T2.5AL) | Y   |     |
| F13      |  | F04-5022-05   | FUSE (UL)            | (125V 5A UL)  | KP  |     |
| F14      |  | F05-2525-05   | FUSE (SEMKO)         | (250V T2.5AL) | X   |     |
| CN6-9    |  | J13-0075-05   | FUSE CLIP            |               | Y   |     |
| CN10,11  |  | J13-0075-05   | FUSE CLIP            |               | KP  |     |

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|---------|--------------|--------------|---------------|------------------------------|------------------|--------------|
| CN12,13 |              |              | J13-0075-05   | FUSE CLIP                    | X                |              |
| L1-3    |              |              | L40-1001-17   | SMALL FIXED INDUCTOR(10UH,K) | KPX              |              |
| L1-4    |              |              | L40-1001-17   | SMALL FIXED INDUCTOR(10UH,K) | Y                |              |
| T1      |              |              | L07-0864-05   | POWER TRANSFORMER            | KP               |              |
| T1      |              |              | L07-0865-05   | POWER TRANSFORMER            | Y                |              |
| T1      |              |              | L07-0866-05   | POWER TRANSFORMER            | X                |              |
| X1      |              |              | L78-0294-05   | RESONATOR (10.000M)          |                  |              |
| R96     |              | R221,222     | R92-1769-05   | CARBON 3.3M J                | 1/2W             | KP           |
|         |              | VR1,2        | RD14NB2E100J  | RD 10                        | 1/4W             |              |
|         |              |              | R10-5078-05   | POTENTIOMETER(100K,5B)       |                  |              |
| K1      |              |              | S76-0009-05   | MAGNETIC RELAY               |                  |              |
| S1-32   |              |              | S40-1064-05   | PUSH SWITCH                  | Y                |              |
| S50     |              |              | S31-2322-05   | SLIDE SWITCH                 | Y                |              |
| S51     |              |              | S62-0001-05   | SLIDE SWITCH                 | Y                |              |
| S33     |              |              | T99-0547-05   | SPEED DETECTOR               |                  |              |
| S34     |              |              | T99-0548-05   | SPEED DETECTOR               |                  |              |
| D2-20   |              |              | HSS104A       | DIODE                        | KPX              |              |
| D2-20   |              |              | 1SS131        | DIODE                        | KPX              |              |
| D2-21   |              |              | HSS104A       | DIODE                        | Y                |              |
| D2-21   |              |              | 1SS131        | DIODE                        | Y                |              |
| D22-35  |              |              | HSS104A       | DIODE                        | X                |              |
| D22-35  |              |              | 1SS131        | DIODE                        | X                |              |
| D23-35  |              |              | HSS104A       | DIODE                        | Y                |              |
| D23-35  |              |              | 1SS131        | DIODE                        | Y                |              |
| D24-35  |              |              | HSS104A       | DIODE                        | KP               |              |
| D24-35  |              |              | 1SS131        | DIODE                        | KP               |              |
| D36-39  |              |              | S5688B(TPB5)  | DIODE                        |                  |              |
| D40-43  |              |              | HSS104A       | DIODE                        |                  |              |
| D40-43  |              |              | 1SS131        | DIODE                        |                  |              |
| ED1     |              |              | CM1270C       | INDICATOR TUBE               |                  |              |
| ED2     |              |              | FIP11SM8R     | INDICATOR TUBE               |                  |              |
| IC1     |              |              | CXP82320-162Q | MI-COM IC                    |                  |              |
| IC2     |              |              | S-80740AL     | ANALOGUE IC                  |                  |              |
| IC3     |              |              | AN780575F     | IC(VOLTAGE REGULATOR/+5.75V) |                  |              |
| IC10    |              |              | NJM4565D-D    | IC(OP AMP X2)                |                  |              |
| IC10    |              |              | XRA15218-DX   | IC(OP AMP X2)                |                  |              |
| Q1      |              |              | 2SC2458(Y,GR) | TRANSISTOR                   |                  |              |
| Q1      |              |              | 2SC3311A(Q,R) | TRANSISTOR                   |                  |              |
| Q2      |              |              | 2SA1048(Y,GR) | TRANSISTOR                   |                  |              |
| Q2      |              |              | 2SA1309A(Q,R) | TRANSISTOR                   |                  |              |
| Q3      |              |              | 2SC2458(Y,GR) | TRANSISTOR                   |                  |              |
| Q3      |              |              | 2SC3311A(Q,R) | TRANSISTOR                   |                  |              |
| Q4      |              |              | 2SC2003(L,K)  | TRANSISTOR                   |                  |              |
| Q11,12  |              |              | 2SC1845(F,E)  | TRANSISTOR                   |                  |              |
| A1      |              |              | W02-1046-05   | ELECTRIC CIRCUIT MODULE      |                  |              |
| A1      |              |              | W02-1174-05   | ELECTRIC CIRCUIT MODULE      |                  |              |

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PARTS LIST

KR-596/796/896

# KR-596/796/896

## SPECIFICATIONS

### U.S.A. and Canada

#### AUDIO section

Rated power output at the STEREO operation  
(KR-896/KR-796/KR-596)

100 watts per channel minimum RMS, both channels driven, at 8Ω from 40 Hz to 20,000 Hz with no more than 0.09% total harmonic distortion. (FTC)

#### Power output at the Surround operation (KR-896/KR-796 only)

Front (1 kHz, 0.9% T.H.D. at 8 Ω) ..... 70 W + 70 W  
Center (1 kHz, 0.9% T.H.D. at 8 Ω) ..... 30 W  
Rear (1 kHz, 0.9% T.H.D. at 8 Ω) ..... 15 W + 15 W

Total harmonic distortion (1 kHz, 8 Ω) ..... 0.05% at 50W  
Signal to noise ratio (IHF'66)

PHONO (MM) ..... 70 dB  
CD, TAPE, VIDEO ..... 95 dB

#### Input sensitivity/impedance

PHONO (MM) ..... 3.5 mV/47 kΩ  
CD, TAPE, VIDEO ..... 200 mV/47 kΩ

#### Tone controls

BASS ..... ± 10 dB (at 100 Hz)  
TREBLE ..... ± 10 dB (at 10 kHz)

#### FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz  
Usable sensitivity (IHF) ..... 13.2 dBf (1.2 μV at 75 Ω)

#### 50 dB quieting sensitivity

STEREO ..... 41.2 dBf (3.2 μV at 75 Ω)  
Total harmonic distortion at 1 kHz

MONO ..... 0.6%  
STEREO ..... 0.7%

#### Signal to noise ratio at 65 dBf (IHF)

MONO ..... 75 dB  
STEREO ..... 68 dB

Selectivity (IHF ± 400 kHz) ..... 50 dB

Stereo separation (IHF at 1 kHz) ..... 40 dB

Frequency response ..... 30 Hz ~ 15 kHz, +0.5 dB, -3.0 dB

#### AM tuner section

Tuning frequency range ..... 530 kHz ~ 1,700 kHz

Usable sensitivity ..... 12 μV/(500 μV/m)

Total harmonic distortion ..... 0.7%

Signal to noise ratio ..... 48 dB

Selectivity ..... 30 dB

#### General

##### Power consumption

..... 2.5 A (KR-896/KR-796) 2.3 A (KR-596)

##### AC outlet

SWITCHED ..... 2: (Total 200 W 1.6 A max.)

Dimensions ..... W: 440 mm (17-5/16")  
H: 192 mm (7-9/16")  
D: 300 mm (11-13/16")

16")

Weight (Net) ..... 10.5 kg (23.1 lb)

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

#### Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A.(K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

### Other countries (KR-896)

#### AUDIO section

Rated power output at the STEREO operation

(EIAJ) from 40 Hz to 20 kHz,  
0.09%, T.H.D. at 8 Ω ..... 100 W + 100 W  
(EIAJ) 1 kHz, 10% T.H.D. at 8 Ω ..... 130 W + 130 W

#### Power output at the Surround operation

Front (1 kHz, 0.9% T.H.D. at 8 Ω) ..... 70 W + 70 W  
Center (1 kHz, 0.9% T.H.D. at 8 Ω) ..... 30 W  
Rear (1 kHz, 0.9% T.H.D. at 8 Ω) ..... 15 W + 15 W

Total harmonic distortion (1 kHz, 8 Ω) ..... 0.05% at 50W

Signal to noise ratio (IHF'66)  
PHONO (MM) ..... 70 dB  
CD, TAPE, VIDEO ..... 95 dB

#### Input sensitivity/impedance

PHONO (MM) ..... 3.5 mV/47 kΩ  
CD, TAPE, VIDEO ..... 200 mV/47 kΩ

#### Tone controls

BASS ..... ± 10 dB (at 100 Hz)  
TREBLE ..... ± 10 dB (at 10 kHz)

#### FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz

Usable sensitivity (IHF) ..... 13.2 dBf (1.2 μV at 75 Ω)  
50 dB quieting sensitivity

STEREO ..... 41.2 dBf (3.2 μV at 75 Ω)

#### Total harmonic distortion at 1 kHz

MONO ..... 0.6%  
STEREO ..... 0.7%

#### Signal to noise ratio at 65 dBf (IHF)

MONO ..... 75 dB  
STEREO ..... 68 dB

Selectivity (IHF ± 400 kHz) ..... 50 dB

Stereo separation (IHF at 1 kHz) ..... 40 dB

Frequency response ..... 30 Hz ~ 15 kHz, +0.5 dB, -3.0 dB

#### AM tuner section

##### Tuning frequency range

9 kHz ..... 531 kHz ~ 1,602 kHz

10 kHz ..... 530 kHz ~ 1,610 kHz

Usable sensitivity ..... 12 μV (500 μV/m)

Total harmonic distortion ..... 0.7%

Signal to noise ratio ..... 48 dB

Selectivity ..... 30 dB

#### General

##### Power consumption

..... 230 W

##### AC outlet

SWITCHED ..... 2: (Total 200 W max.)

Dimensions ..... W: 440 mm (17-5/16")  
H: 192 mm (7-9/16")  
D: 300 mm (11-13/16")

Weight (Net) ..... 10.5 kg

**KENWOOD CORPORATION**

14-6,Dogenzaka 1-chome, Shibuya-ku, Tokyo, 150 Japan

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